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BULLETIN OF

The University of Georgia

Vol. LV, No. 10 March 30, 1955

General Catalogue

Register for 1954-1955

Announcements for 1955-1956

Athens, Georgia

MRS Charles Davidson

BULLETIN OF

The University of Georgia

GENERAL CATALOGUE

1955-1956

ATHENS, GEORIGA

1955 CALENDAR 1955

APRIL

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1956 CALENDAR 1956

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CALENDAR, 1955-1956

SUMMER QUARTER, 1955

First Term

JUNE 14:	Registration
JUNE 15:	Classes Begin
JULY 4:	Holiday
JULY 21:	Term Ends

Second Term

JULY 25:	Registration & Classes Begin
AUGUST 18:	Graduation

FALL QUARTER, 1955

SEPTEMBER 18:	Freshmen and other new students report to assigned dormitories
SEPTEMBER 18-24:	Orientation Week
SEPTEMBER 20:	Freshmen get registration envelopes 1 to 4 p.m.
SEPTEMBER 21:	Registration envelopes available for all students
SEPTEMBER 22-24:	Registration—Freshmen 1 to 5 p.m. on the 22nd. Other classes 8:30 a.m. on the 23rd to 10 a.m. on the 24th
SEPTEMBER 26:	Classes begin for all students
OCTOBER 1:	Saturday Class registration
NOVEMBER 24-26:	Thanksgiving recess
DECEMBER 9:	Classes End
DECEMBER 12-16:	Examinations
DECEMBER 19:	Christmas Vacation begins

WINTER QUARTER, 1956

JANUARY 3:	Registration—Saturdays—January 7 and January 14 will be regular class days
JANUARY 4:	Classes begin
FEBRUARY 23:	Constitution Examination—3:30 p.m., Room 212 Academic Building
MARCH 9:	Classes End
MARCH 10-14:	Examinations
MARCH 15-19:	Spring Recess

SPRING QUARTER, 1956

MARCH 20:	Registration—Saturday, March 24 will be a regular class day
MARCH 21:	Classes Begin
MAY:	Annual Inspection Air & Army ROTC
MAY:	Honors Day
MAY 29:	Classes End
MAY 30-JUNE 2:	Examinations
JUNE 3:	Baccalaureate Sermon
JUNE 4:	Term Ends, Graduation, and Alumni Day

SUMMER QUARTER, 1956

JUNE 12-AUG. 16:

BULLETIN OF THE UNIVERSITY OF GEORGIA

Volume LV **March 30, 1955** **Number 10**

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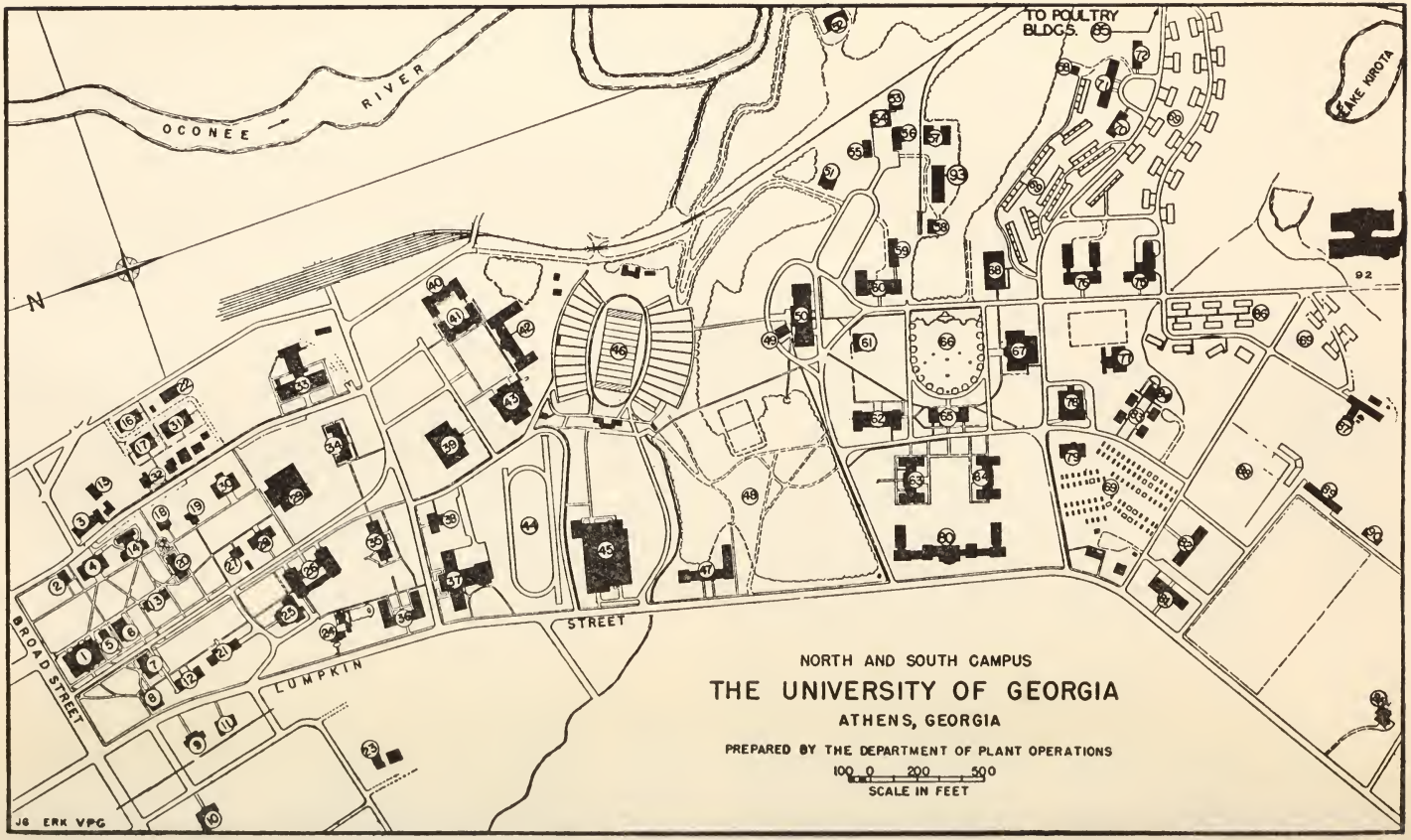
OCONEE RIVER
TO POULTRY BLDGS.
LAKE HORTA
N
BROAD STREET
LUMPKIN STREET
NORTH AND SOUTH CAMPUS
THE UNIVERSITY OF GEORGIA
ATHENS, GEORGIA
PREPARED BY THE DEPARTMENT OF PLANT OPERATIONS
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SCALE IN FEET
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1. Academic Building.
2. Phi Kappa Hall.
3. Garage & Shop.
4. Terrell Hall.
5. Demosthenian Hall.
6. Chapel.
7. Physics Building.
8. Meigs Hall.
9. Chi Phi House.
10. Pi Kappa Alpha House.
11. Kappa Alpha House
12. Candler Hall
13. Pharmacy Building.
14. Georgia Museum of Art.
15. Printing Department.
16. Education Annex.
17. Air Force ROTC Classrooms.
18. Lustrat House.
19. Exceptional Children Program.
20. Old College.
21. Gilbert Memorial Infirmary.
22. Fine Arts Annex.
24. Landscape Architecture Bldg.
25. Denmark Hall.
26. Commerce-Journalism Bldg.
27. Institute of Law & Govt.
28. Law Building.
29. Ilah Dunlap Little Library.
30. Peabody Hall.
31. Chemistry Annex.
32. Air Force ROTC Hdqrs.
33. Baldwin Hall.
34. LeConte Hall.
35. Park Hall.
36. Joseph E. Brown Hall.
37. Fine Arts Bldg.
38. Military Building.
39. Woodruff Hall.
40. Payne Hall.
41. Milledge Hall.
42. Reed Hall.
43. Memorial Hall.
44. Track.
45. Stegeman Hall.
46. Sanford Stadium.
47. Clark Howell Hall.
48. Arboretum.
49. South Campus Library.
50. Conner Hall.
51. Experimental Laboratory.
52. Sigma Nu House.
53. Abattoir.
54. Meat Processing Plant.
55. Plant Pathology Building.
56. Food Processing Plant.
57. Warehouse.
58. Boiler Houses.
59. Barrow Hall Shop.
60. Barrow Hall.
61. Greenhouse—Horticulture.
62. Dawson Hall.
63. Rutherford Hall.
64. Mary Lyndon Hall.
65. Soule Hall.
66. Amphitheater.
67. Physical Education Bldg.
68. Hardman Hall.
69. Continuing Education Center (Proposed)
70. Griggs Hall.
71. Fain Hall.
72. Dudley Hall.
75. Dairy Building.
76. Forestry Building.
77. Greenhouse—Experimental.
78. Snelling Hall.
79. South Campus Post Office.
80. Myers Hall.
81. Agricultural Extension Bldg.
82. Agricultural Extension Annex.
83. Home Management Houses.
84. Nursery School.
85. Poultry Buildings.
86. Veterans' Dormitories.
87. Laundry.
88. Baseball Field.
89. Athletic Field House.
90. Grounds Shop.
92. Veterinary Building.
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ALLIE CARROLL HART, A.B., M.A., *Instructor* and *Assistant Catalogue Librarian.*

CLARA JANE HART, B.A., *Temporary Instructor in English.*

JOHN FRASER HART, A.B., M.A., Ph.D., *Associate Professor of Geography and Geology.*

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ROBERT HERMAN HARTLEY, B.S., M.A., *Assistant Professor of Education, Waycross, Georgia.*

***Died January 2, 1954.

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Ada Louise Harwell, B.A., B.M., M.S., *Assistant Professor of Music.*

Ellis W. Hauser, B.S.A., M.S.A., Ph.D., *Plant Physiologist, Experiment, Georgia, U.S.D.A.*

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Dean Dillard Hayes, B.S.A., *Superintendent of Branch Experiment Station, Calhoun, Georgia.*

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Harold Milton Heckman, B.S.C., M.A., C.P.A., *Professor of Accounting.*

George Edwin Henderson, B.S.A., *Professor of Agricultural Engineering* and *Coordinator of the Southern Association of Agricultural Engineering and Vocational Agricultural Educators.*

**Herbert Blair Henderson, B.S., M.S., *Professor of Dairy, Head of the Dairy Department,* and *Chairman of the Dairy Division.*

William McLendon Henderson, A.B., LL.B., LL.M., *Associate Professor of Law.*

Robert Vance Hendon, B.S.Ed., First Lieutenant, USAF, *Assistant Professor of Air Science.*

Linville Laurentine Hendren, A.B., M.A., Ph.D., *Professor Emeritus of Physics and Astronomy* and *Emeritus Dean of Faculties.*

Barbara Louise Hendry, A.B., M.S., *Instructor* and *Assistant Catalogue Librarian.*

Bertram Hegbie Hendrickson, B.S., *Superintendent, Southern Piedmont Conservation Experiment Station, Watkinsville, Georgia.*

Robert Gilbert Henry, A.B., M.S., *Associate Professor of Physics and Astronomy.*

Mary Irma Hicks, B.S., M.A,. *Associate Professor Emeritus of Clothing and Textiles.*

Lucile Alice Higginbotham, B.S.H.E., *Assistant Home Economist—Health Education, Agricultural Extension.*

Bascombe Britt Higgins, B.S., M.S., Ph.D., *Plant Pathologist* and *Head of the Department of Botany, Experiment, Georgia.*

Pope Russell Hill, B.S.A., M.S., *Associate Professor of Mathematics.*

Leonard Joseph Hippchen, B.J., M.J., *Assistant Professor of Journalism.*

William Lawrence Hitchcock, B.S.A., M.Ed., Ed.D., *Assistant Professor of Education.*

****Hugh Hodgson, B.S., Mus.D., *Regents' Professor of Music, Head of the Department of Music,* and *Chairman of the Division of Fine Arts.*

Roberta Hodgson, A.B., M.A., *Instructor Emeritus in History and Political Science.*

Paul Eugene Hoffman, D.V.M., *Instructor in Veterinary Medicine and Surgery.*

Alfred Heber Holbrook, A.B., LL.B., *Lecturer in Art* and *Curator of the Georgia Museum of Art.*

Kirk Theron Holley, B.S., *Chemist* and *Head of the Department of Chemistry, Experiment, Georgia.*

Annie May Holliday, B.S., *Associate Professor Emeritus of Art.*

Louise Hollingsworth, A.B., B.S., *Instructor* and *Assistant Humanities Librarian.*

*Maude Pye Hood, B.S.H.E., M.S.H.E., Ph.D., *Professor of Home Economics.*

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William Eugene Hudson, B.S.A.E., M.S.A.E., *Professor of Agricultural Engineering.*

Gerald Boone Huff, B.A., M.A., Ph.D., *Professor of Mathematics* and *Head of the Department of Mathematics.*

*Lawrence Huff, A.B., M.A., *Assistant Professor of English.*

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***George Alexander Hutchinson, A.B., M.A., Ph.D., *Professor Emeritus of Sociology.*

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Lillian Dawson Jackson, A.B., M.A., *Instructor in English, Rome, Georgia.*

**Lyle Wendell Redverse Jackson, B.S.F., M.S., Ph.D., *Professor of Silviculture.*

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*On leave.
**Also on College Experiment Station Staff.
***Died October 14, 1954.
***Died January 14, 1954.
****Also on Atlanta Division Staff, 1954-55.

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Edwin James, B.S., M.S., Ph.D., *Coordinator, Regional Primary Plant Introduction Station, Experiment, Georgia.*

William Thomas James, B.S., Ph.D., *Professor of Psychology.*

Edgar Ray Jarman, B.S.A., M.S., *Assistant Animal Husbandman, Blairsville, Georgia.*

Milton Preston Jarnagin, B.S., M.Agr., Sc.D., *Animal Husbandman Emeritus, Agricultural Extesnion.*

James Hobart Jenkins, B.Sc., M.Sc., *Assistant Professor of Wildlife Management.*

Julian G. Jenkins, *Agronomist, Tifton, Georgia, U.S.D.A.*

Billy Jack Johnson, B.S.A., *Research Assistant, Experiment, Georgia.*

Cecil Johnson, B.S.A., *District Agent, Agricultural Extension.*

Glenn Irvin Johnson, B.S.A.E., *Agricultural Engineer, Agricultural Extension.*

John Ralph Johnson, B.S., *Associate Agronomist, Agricultural Extension.*

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Floyd Jordan, A.B., M.A., Ph.D., *Professor of Education* and *Coordinator of the Atlanta Area Teacher Education Service.*

Howard Sheldon Jordan, B.A., M.A., Ph.D., *Professor of French* and *Head of the Department of Modern Foreign Languages.*

Hudson Jost, Ph.D., *Professor of Psychology* and *Head of the Department of Psychology.*

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Effie Lou Keaster, B.A., M.Ed., *Associate Professor of Health and Physical Education.*

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Rowland Francis Kraps, A.B.J., *Assistant Professor of Journalism* and *Head of the Printing Department.*

Rudolph Kratina, *Part-time Associate Professor of Music.*

Sam Kreuz, D.V.M., *Assistant Professor of Veterinary Medicine and Surgery.*

Martha LaBoon, B.S.H.E., M.S.H.E., *Assistant Professor of Child Development.*

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Delmon William LaHue, B.S., M.S., *Entomologist, Tifton, Georgia, U.S.D.A.*

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Archie Langley, B.S., *Agricultural Statistician, Agricultural Extension, Cooperative, U.S.D.A.*

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Lonnie Richard Lanier, B.S.A., *District Agent, Agricultural Extension.*

James Michael Lanigan, Jr., Major, USA, B.S.M.E., *Assistant Professor of Military Science and Tactics.*

Joseph Paul LaRocca, B.S., M.S., Ph.D., *Professor of Pharmacy.*

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Harold Lee Luper, A.B., M.A., Ph.D., *Assistant Professor of Speech Correction.*

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Robert Gooding McAlpine, B.S., *Research Associate and Forestry Aide, U.S.F.S.*

Anna Jeanette McClung, A.B., *Part-time Instructor in the Demonstration School.*

William Conner McCormick, B.S.A., M.S.A., *Associate Animal Husbandman, Tifton, Georgia.*

*On leave.

Marshall Edward McCullough, B.S.A., M.S.A., *Assistant Dairy Husbandman, Experiment, Georgia.*

Earl Stuart McCutchen, B.F.A., M.A., *Assistant Professor of Art.*

Catherine Mae McDermott, R.N., B.S., A.M., *Associate Professor of Nursing.*

William Worth McDougald, A.B., *Assistant Professor of Journalism.*

John Frank McGill, B.S.A., *Assistant Agronomist, Agricultural Extension.*

Robert Barclay McGhee, A.B., M.S., Ph.D., *Associate Professor of Zoology.*

John Edwin McGowan, B.S.A., *Assistant Dairyman, Agricultural Extension.*

Thomas Hubbard McHatton, B.S., M.Hort., D.Sc., *Professor Emeritus of Horticulture.*

Walter Floyd McLendon, D.V.M., *Professor of Veterinary Medicine and Surgery* and *Head of the Department of Veterinary Medicine and Surgery.*

***Thomas Leverett McMullan, B.S.A., *Administrative Assistant, Agricultural Extension.*

Margaret Elizabeth McPhaul, B.S.H.E., M.A., *Associate Professor of Child Development.*

Robert Greer McPherson, A.B., M.A., *Instructor in History.*

Neal Duncan McRainey, B.S.A., *Superintendent of the Branch Experiment Station, Americus, Georgia.*

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*James Henry Madden, B.F.A., M.F.A., *Assistant Professor of Art.*

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*Alexander Montague Main, B.M., M.A., *Assistant Professor of Music.*

Eugene Pennington Mallary, B.L., LL.B., M.A., *Associate Professor Emeritus of Philosophy.*

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***Died February 15, 1954.

Paul Dan Martin, B.L.A., *Instructor in Landscape Architecture.*

Sidney Walter Martin, A.B., M.A., Ph.D., *Professor of History* and *Dean of the College of Arts and Sciences.*

Donald L. Martindale, B.S., M.S., *Research Forester, U.S.F.S.*

Bernard Stephen Martof, B.S., M.S., Ph.D., *Assistant Professor of Zoology.*

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Hugh Burton Masters, B.S., M.A., Ph.D., *Professor* and *Director of Continuing Education.*

Eugene Mather, B.A., M.S., Ph.D., *Associate Professor of Geography and Geology.*

Susan Josephine Mathews, A.B., B.S., M.A., *Home Economist Emeritus—Nutrition, Agricultural Extension.*

John Frank Mauldin, B.S.A., *Assistant Agricultural Economist, Agricultural Extension.*

Marjory Maxwell, B.S., M.S., *Instructor in Child Development.*

Howard Norvell Mead, D.V.M., *Instructor in Veterinary Anatomy and Histology.*

John Cassius Meadows, A.B., M.A., Ph.D., *Professor of Sociology.*

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Helen Virginia Michaelis, A.B., A.B. in L.S., *Assistant Professor* and *South Branch Librarian.*

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Joseph Ewing Miller, B.S., Major, *Assistant Professor of Air Science.*

**Julian Howell Miller, B.S.A., M.S., Ph.D., *Regents' Professor of Plant Pathology and Plant Breeding, Head of the Department of Plant Pathology and Plant Breeding,* and *Chairman of the Division of Plant Pathology.*

Sara Josephine Miller, B.S., *Assistant Home Economist, Experiment, Georgia.*

William Jack Miller, B.S. Ag.Ed., M.S.A., Ph.D., *Temporary Assistant Professor of Dairy.*

Francis Ford Millikan, B.S.Pharm., M.S.Pharm., M.S.Chem., *Associate Professor of Pharmacy.*

Adrian Moss Mills, D.V.M., *Professor of Veterinary Medicine and Surgery.*

Hugh Milton Mills, B.S.Ed., M.Ed., *Temporary Instructor in Education.*

Thomas Hamilton Milner, Jr., LL.B., *Lecturer in Jurisprudence, School of Veterinary Medicine.*

Leonora Mirone, B.A., M.S., Ph.D., *Associate Professor of Nutrition* and *Head of the Department of Foods and Nutrition.*

**Also on College Experiment Station Staff.

James Harris Mitchell, B.A., *Associate Professor of Music, Acting Head of Music Department,* and *Adviser to B.F.A. Students.*

John Herbert Mitchell, M.S.Ed., *Assistant Supervisor of Agricultural Itinerant Teacher Training.*

**Jessie Julia Mize, B.S., M.S., B.S.H.E., Ph.D., *Associate Professor of Home Economics.*

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Marion H. Montgomery, Jr., A.B., A.M., *Instructor in English.*

Pearl Campbell Moon, B.S.H.E., M.A., *Associate Professor Emeritus of Home Management.*

Floride Moore, B.S.H.E., M.S., Ph.D., *Associate Professor of Home Economics in Education* and *Head of the Department of Home Economics in Education.*

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Thomas Charles Nelson, B.S., M.S., Ph.D., *Forester and Project Leader, U.S.F.S.*

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Theodore Edward Nichols, A.B., M.A., Ph.D., *Assistant Professor of History.*

Homer Kittrell Nicholson, Jr., A.B., M.A., *Assistant Professor of English, Columbus, Georgia.*

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Annie Ida Obenshain, B.S., M.A., *Instructor in Education* and *Critic Teacher in Elementary Education in the Demonstration School.*

Eugene Pleasants Odum, A.B., A.M., Ph.D., *Professor of Zoology.*

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Harvey Walter Rankin, B.S.A., M.S.A., *Plant Pathologist, Tifton, Georgia.*

Einar Rasmussen, B.S.M.A., *Assistant Professor of Business Administration.*

Mary Joy Rasmussen, B.S., M.S., *Assistant Professor of Home Economics.*

**Mervin M. Reines, B.S., M.S., Ph.D., *Associate Professor of Forestry Genetics.*

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Frank Telford Ritchie, B.S., *State Soil Scientist, Soil Conservation Service, U.S.D.A.*

***Horace Bonar Ritchie, A.B., M.A., *Professor Emeritus of Education.*

Gerald Burns Robins, B.S.Ed., M.S.Ed., Ed.D., *Instructor in Education.*

Burett Presley Robinson, B.S., M.S., *Turf Specialist, Tifton, Georgia.*

**Paul Dean Rodgers, A.B., B.S.M.E. M.S.A.E., *Associate Agricultural Engineer* and *Associate Professor of Agricultural Engineering.*

Thomas Hayden Rogers, B.S., M.S., Ph.D., *Professor of Agronomy* and *Head of the Department of Agronomy.*

*On leave.
**Also on College Experiment Station Staff.
***Died November 14, 1954.

Costic Roman, B.S., M.A., *Assistant Professor of Business Administration.*

Ila Rooks, A.B., M.Ed., *Instructor in Education.*

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Fred Bradley Saunders, B.S.A., M.S.A., *Assistant Professor of Agricultural Economics.*

Earl Frederick Savage, B.S., Ph.D., *Horticulturist* and *Head of the Department of Horticulture, Experiment, Georgia.*

Thomas Knowlton Sawyer, B.S., *Parasitologist, Tifton Georgia, U.S.D.A.*

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Henry William Schoenborn, A.B., Ph.D., *Professor of Zoology.*

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Donald Charles Scott, B.S., Ph.D., *Assistant Professor of Zoology.*

Mary Hughie Scott, B.S., *Instructor in Education* and *Critic Teacher in the Demonstration School.*

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William Clifton Sears, B.A., M.S., Ph.D., *Associate Professor of Physics.*

Gregor Sebba, Dr. utr. jur., Dr. rer. pol., *Professor of Economics.*

Robert Taylor Segrest, B.S.C., M.S.C., *Professor of Economics* and *Associate Dean of the College of Business Administration.*

Edward Scott Sell, B.S.A., M.S.A., *Professor Emeritus of Geography.*

Otto Edwin Sell, B.S., M.S., Ph.D., *Pasture Specialist* and *Head of the Department of Animal Industry, Experiment, Georgia.*

Erza Lee Sellers, B.F.A., M.F.A., *Assistant Professor of Art* and *Adviser to B.F.A. Students.*

Raymond Fulton Sewell, B.S.A., M.S.A., Ph.D., *Assistant Professor of Animal Husbandry.*

**Also on College Experiment Station Staff.

Olive Hall Shadgett, B.A., M.A., *Temporary Part-time Instructor in Political Science* and *Research Assistant in the Bureau of Public Administration.*

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**John Joseph Sheuring, B.S., M.S., Ph.D., *Professor of Dairy.*

Robert William Sherman, B.M., M.M., Ph.D., *Temporary Assistant Professor of Music.*

Eliza Mildred Shirley, B.S., *Instructor in Education* and *Critic Teacher in the Demonstration School.*

Lynn Shufelt, B.S., M.S., *Associate Professor of Education* and *Member of the Staff, Atlanta Area Teacher Education Service.*

**Joseph Winslow Simons, B.S.A.E., M.S.A.E., *Research Professor of Agricultural Engineering* and *Agricultural Engineer, U.S.D.A.*

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Howard Ross Smith, A.B., M.S., Ph.D., *Professor of Economics.*

James Aubrey Smith, *Assistant Editor—Visual Education, Agricultural Extension.*

Jennie Belle Smith, B.M., *Associate Professor Emeritus of Music.*

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Richard E. Smith, B.S.Ed., M.S.A., *Community Development Specialist, Agricultural Extension.*

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*On leave.
**Also on College Experiment Station Staff.

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*Charles Raymond Spell, A.B., M.S., *Assistant Professor of Chemistry.*

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Hugh Smiley Stanley, A.B., A.M., *Assistant Professor of Mathematics.*

James R. Stansell, Jr., B.S.A.E., *Assistant Agricultural Engineer, College Experiment Station.*

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**Matthias Stelly, B.S., M.S., Ph.D., *Professor of Agronomy.*

James Louis Stephens, B.S.A., M.S.A., *Senior Agronomist, Tifton, Georgia, U.S.D.A.*

Ralph Haygood Stephens, B.S., M.A., *Assistant Professor* and *Director of the University Press.*

Ronald David Stephens, B.S.A., *Associate Editor—Radio, Agricultural Extension.*

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*On leave.
**Also on College Experiment Station Staff.
***Died March 4, 1954.

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*James Aaron Strickland, B.B.A., M.Ed., *Instructor in Education.*

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Warren Murray Strong, D.V.M., *Assistant Professor of Veterinary Hygiene.*

David Boyd Strother, A.B., M.A., *Temporary Assistant Professor of Speech.*

Thad Suits, *Assistant Professor of Art.*

Harry Richards Sullivan, A.B., M.A., *Temporary Part-time Instructor in English.*

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William Tate, A.B., A.M., *Associate Professor of English* and *Dean of Men.*

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James S. Thaxton, B.S.A., *Assistant Poultryman, Agricultural Extension.*

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***Died June 1, 1954.

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Richard Brogdon Trimble, Ph.B., LL.B., *Temporary Instructor in Political Science.*

Emil Samuel Troelston, B.S., A.M., Ph.D., *Associate Professor of Economics.*

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Lester Carl Walker, Jr., B.A., M.A., Ph.D., *Assistant Professor of Art.*

*Marion Skinner Walker, B.S.H.E., M.S.H.E., *Assistant Professor of Housing and Household Equipment.*

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**Harold Douglas White, B.S.A.E., M.S.A.E., *Professor of Agricultural Engineering.*

Harry Alton White, B.S., M.S., *Statistician, Crop Reporting Service, Agricultural Extension, U.S.D.A.*

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*On leave.
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Thomas Hillyer Whitehead, B.S., M.A., Ph.D., *Professor of Chemistry.*

Florence Avola Whitesell, B.S., M.S., *Instructor in Home Economics.*

Clyde W. Whitworth, B.S., *Instructor in Pharmacy.*

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Barnett Osborne Williams, B.S., M.A., Ph.D., *Professor of Sociology* and *Head of the Department of Sociology and Anthropology.*

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John Dowell Williams, B.A., M.A., Ph.D., *Associate Professor of Spanish.*

Joseph Anderson Williams, A.B., M.S., M.Ed., D.Ed., *Professor of Education* and *Assistant to the President.*

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Ralph Otto Williams, B.S., *Assistant Agricultural Economist, Livestock Marketing, Agricultural Extension.*

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Charles Christopher Wilson, B.S., M.A., Ph.D., *Professor of Botany.*

Robert Cumming Wilson, Ph.G., *Dean Emeritus of the School of Pharmacy.*

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Annie Virgil Womack, B.F.A., M.A., *Assistant Professor of Modern Foreign Languages.*

Porter Shelley Wood, B.S., M.A., C.P.A., *Assistant Professor of Accounting.*

Otis Woodard, B.S.A., *Horticulturist* and *Head of the Department of Horticulture, Tifton, Georgia.*

Jasper Guy Woodroof, B.S.A., M.S.A., Ph.D., *Food Technologist, Head of the Department of Food Technology,* and *Chairman of the Division of Food Technology, Experiment, Georgia.*

James Frederick Woodruff, B.A., M.A., Ph.D., *Assistant Professor of Geography and Geology.*

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**Albert Cadwallader Worrell, B.S.F., M.F., Ph.D., *Associate Professor of Forest Mensuration.*

Florene Young, A.B., M.A., Ph.D., *Professor of Psychology.*

**Also on College Experiment Station Staff.

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Ann Elizabeth Zellner, B.S.H.E., *Assistant State 4-H Club Leader, Agricultural Extension.*

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Thomas Frederick Zweigart, D.V.M., *Assistant Professor of Veterinary Pathology and Parasitology.*

SPECIAL LECTURERS, DEPARTMENT OF ART

Charles Eames, *Designer.*

Henry R. Hope, *Lecturer in Art.*

Edward Millman, *Lecturer in Art.*

George Nelson, *Designer.*

Abbott Pattison, *Sculptor.*

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Emerson Bennett, *Assistant Catalogue Librarian.*
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Vivian Branch, *Humanities Librarian.*
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Helen Virginia Michaelis, *South Branch Librarian.*
James Christopher Myers, *Assistant Catalogue Librarian.*
Charlotte Newton, *Assistant Catalogue Librarian.*
James Marvin Nicholson, Jr., *Assistant Social Sciences Librarian.*
Hazel Philbrick, *Assistant Science Librarian.*
Elizabeth Riley, *Assistant Acquisitions Librarian.*
Vivian Marguerite Smith, *Assistant Acquisitions Librarian.*
Ellen Louise Sumner, *Assistant Circulation Librarian.*
John Jacob Zimmerman, *Acquisitions Librarian.*

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William Preston Adams, *Botany.*
James J. Andrews, *Mathematics.*
May Agnes Appleby, *Education.*
Thomas LeRoy Austin, *Business Administration.*
Rupert Dean Boswell, Jr., *Mathematics.*
Douglas Dean Brown, *Mathematics.*
Isabelle Elizabeth Cabiniss, *Home Economics.*
Celia Ann Calloway, *Biology.*
Gerald L. Carlson, *Chemistry.*
George B. Clarke, *Chemistry.*

Charles Lamar Clifton, *Education.*
Clyde E. Connell, *Biology.*
Robert William Cowan, *Mathematics.*
Carlyle Cross, *English.*
Madeleine Pouillart Davis, *Modern Foreign Languages.*
Mary Catherine Dunn, *Biology.*
Cecil Thomas Greer, *History.*
Claire LaVerne Hall, *Psychology.*
Herman Galey Hamby, *Physics.*
Sally Nixon Hand, *English.*
Ruth Emerson Harris, *Music.*
Winifred Ann Harris, *Modern Foreign Languages.*
Annette Pirkle Haselden, *Education.*
Andree Coile Hefner, *English.*
James F. Hinton, *Chemistry.*
James Edmond Jackson, *Agronomy.*
Frank Henry Kaler, *Education.*
Ruth Kamrass, *Education.*
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Rozanne Knudson, *English.*
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William T. Lewis, *Chemistry.*
James Walter Lynch, *Mathematics.*
Raymond A. Lytle, *Mathematics.*
Lewis Lee McNair, *Mathematics.*
Elsie Jean McWhorter, *Art.*
Henry C. Meyer, *Chemistry.*
George E. Miller, *Mathematics.*
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Ora Dale Riggle, *Political Science.*
Henry Cooke Robert, *Biology.*
Benjamin Cox Rountree, *Modern Foreign Languages.*
Mauriel Shipp, *History.*
Byron Coleman Smith, *Biology.*
Eric Fontelle Thompson, *Biology.*
Lowell Milner Underwood, *Dairy.*
Frederick Wayne Wagnon, *Physics.*
David T. Walker, *Mathematics.*
Thomas Andrew Williams, Jr., *Modern Foreign Languages.*

GENERAL INFORMATION

THE UNIVERSITY

HISTORY

The University of Georgia was incorporated by an Act of the General Assembly on January 27, 1785. In the preceding year the General Assembly had set aside 40,000 acres of land to endow a college or seminary of learning. Georgia was the first state to provide for the establishment of a state-supported university.

The first meeting of the Board of Trustees was held in Augusta on February 13, 1786. At this meeting the Trustees selected Abraham Baldwin as president of the University. Baldwin, a native of Connecticut and a graduate of Yale University, had come to Georgia in 1784. It was he who drafted the charter adopted by the General Assembly.

The University was not actually established until 1801. In that year a committee of the Board of Trustees selected a site for the new institution. John Milledge, later a governor of the state, purchased the site chosen—a tract of 633 acres on the banks of the Oconee River in Northeast Georgia —and gave it to the Board of Trustees. In the fall of 1801 Josiah Meigs was named president of the University and work was begun on the first building. This building, originally called Franklin College in honor of Benjamin Franklin, is still standing and is now known as Old College. The University opened its doors to students in 1801 and graduated its first class in 1804.

During the early part of the nineteenth century the curriculum of the University of Georgia—or of Franklin College as it was then frequently called—embraced only courses in traditional classical studies. In 1843 the scope of the work of the institution was broadened by the offering of courses in law. The activities of the University were broadened still further in 1872 when the institution was designated to receive Federal funds provided for instruction in agriculture and the mechanical arts.

After the turn of the century the activities of the University expanded rapidly to meet the demands for various types of professional and technical training. The teaching and research work of the University is now carried on by eleven colleges and schools and by two divisions that are integral parts of the University. These colleges and schools and the dates of their establishment as separate administrative units are as follows: College of Arts and Sciences, 1801; School of Law, 1859; School of Pharmacy, 1903; College of Agriculture, 1906; School of Forestry, 1906; College of Education, 1908; Graduate School, 1910; College of Business Administration, 1912; School of Journalism, 1915; School of Home Economics, 1933; School of Veterinary Medicine, 1946. The Atlanta Division and the Division of General Extension, now The Georgia Center for Continuing Education, were incorporated into the University July 1, 1947.

In 1931 the General Assembly of Georgia placed all publicly supported

schools and colleges, including the University of Georgia, under the jurisdiction of a single board. The organization set up by the Act of 1931 is known as the University System of Georgia and the governing board of the System is called the Board of Regents. The executive officer of the Board of Regents, known as the Chancellor, exercises a general supervisory control over all institutions of the University System. Each one of the institutions comprising the University System has its own executive officers and faculty.

ATLANTA DIVISION

By action of the Board of Regents the former University System of Georgia Center in Atlanta was integrated with the University on July 1, 1947. This Center had operated as a separate unit in the University System since 1932. The courses are scheduled for hours that will accommodate residents of the Atlanta metropolitan area who are employed full or part-time. The program is planned to serve four purposes: (1) a two-year junior college curriculum with residence credit; (2) a four-year curriculum leading to the degree of Bachelor of Business Administration; (3) courses in certain fields to enable a student to complete the equivalent of a third year of work; and (4) extension courses to meet the needs of adults for professional or cultural improvement.

Admission requirements, degree requirements, fees, and general policies are the same for both the Atlanta Division and the University in Athens. Course offerings and general information concerning the Atlanta Division are contained in the bulletin published by that Division. Communications regarding the courses or admission should be addressed to the Atlanta Division, University of Georgia, 24 Ivy Street, S. E.

GROUNDS AND BUILDINGS

The first buildings of the University were constructed in the primeval forest of North Georgia, far distant from any town of consequence. About the University community the town of Athens grew up. Although Athens is now one of the larger and more important cities of the state, it retains much of the beauty and charm of the Old South.

The North Campus of the University lies in the very heart of Athens. On this campus are located buildings that house the College of Arts and Sciences, the School of Law, the School of Pharmacy, the College of Education, the College of Business Administration, and the School of Journalism. Here also are a dining hall and five dormitories for men students. Thirty-two principal buildings are located on this campus. Among these buildings are Old College (1801), New College (1832), Demosthenian Hall (1824), the University Chapel (1832), and Phi Kappa Hall (1834).

Surrounding the Landscape Architecture Building is the Ladies' Garden Club Founders Memorial Garden, consisting of a series of formal and naturalistic developments.

On the South Campus, which is separated from the North Campus by a wooded ravine, are situated the buildings that house the College of Agriculture, the School of Forestry, the School of Home Economics, and the School of Veterinary Medicine. One portion of this campus is set aside for

buildings that are used by women students. There are twenty-two major buildings on the South Campus.

The campuses of the University and the adjacent lands used by the College of Agriculture and the School of Forestry embrace approximately 3,500 acres.

LIBRARIES

On June 30, 1954, the Libraries of the University contained 311,193 volumes besides many manuscripts, maps, and pamphlets. Material is being constantly added in the support of current teaching and research. During recent years grants from educational foundations and special allocations of funds have contributed to the general strengthening of the collections and to the expansion of resources for graduate study.

The collections of particular value are the famous DeRenne Library of Georgia and southern historical material, containing the original Constitution of the Confederate States; the Moore collection of southern history; some early Georgia colonial manuscripts which were once the property of the Earl of Egmont, first president of the Trustees of the Georgia Colony; and the mathematical collection which, as the result of acquiring the 13,000-volume library of the American Mathematical Society in 1951, is one of the best in the country.

The University Libraries serve as a depository for publications of the United States government and maps issued by the Army Map Service. The document collection has been augmented by acquisition of many publications of the states and by the publications of the League of Nations and of the United Nations.

Current subscriptions are maintained for more than 2,500 periodicals and newspapers. Many of the publications of the important universities and scholarly societies are also received.

In addition to the facilities of the General Library, special services are provided for the College of Agriculture and the Schools of Forestry, Home Economics, Law, and Veterinary Medicine. The Alexander C. King Law Library is located on the second floor of Hirsch Hall and contains approximately 31,000 well-selected volumes. The branch on South Campus houses some 31,500 volumes, and serves the various teaching departments on that campus.

The resources of all branches are catalogued in the General Library and the resources of all units are available on equal terms to the students and faculties of all colleges and schools. Located in the General Library is a union catalogue of all books in the major libraries of Atlanta. Inter-library loan services are possible with these libraries as well as with many others throughout the country.

Rules and regulations governing the use of books are designed to achieve the greatest usefulness of the collections to the University community. The stacks are open to both members of the faculty and to students. Most books, except reference works, periodicals, and material used in class assignments, are lent for two weeks.

The main library is open from 8:00 A. M. to 10:00 P. M. Monday through

Friday, from 8:00 A.M. to 5:00 P.M. on Saturday, and from 2:00 to 6:00 P.M. on Sunday. While the hours of the branch libraries vary to meet the particular needs of the clientele, they are open approximately the same total time, adequately providing for examination and use of material not available for use outside the building.

LABORATORIES

The Departments of Bacteriology, Botany, Chemistry, Physics, Plant Pathology, Psychology, and Zoology have laboratories that are well equipped for instruction and original research. There are several private laboratories for the use of professors and advanced graduate students. The School of Pharmacy, the College of Agriculture, the School of Forestry, the School of Home Economics, and the School of Veterinary Medicine have extensive laboratory facilities for the use of their students and faculties in their work in the fields of applied science. The College of Business Administration has recently acquired many business machines of the latest type for use in courses in accounting and business procedures. The School of Journalism maintains a press room and radio studio as a means of offering practical training to its students.

THE COLLEGE YEAR

The college year is divided into four quarters of approximately eleven weeks each. The fall quarter begins the latter part of September and ends at the Christmas holidays. The winter quarter begins during the first week in January and extends to the middle of March. The spring quarter begins in March and ends in the early part of June. The summer quarter begins in June and closes in the latter part of August. The exact dates on which quarters begin and end will be found in the University Calendar.

New courses are begun each quarter. It is possible, therefore, for students to enter the University at the beginning of any quarter.

Degrees are conferred at the close of the spring quarter in June and at the close of the summer quarter in August. Students completing their work in December or March will, on their request, be given a certificate to the effect that all degree requirements have been satisfied. Such students receive their diploma in June following the completion of their work.

ADMISSIONS

Application for Admission Forms Will Be Provided by the Registrar on Request. Completion of all admission papers is required before admission to the University is granted.

1. Any resident of Georgia applying for admission to an institution of the University System of Georgia shall be required to submit certificates from two citizens of Georgia, alumni of the institution that he desires to attend, on prescribed forms, which shall certify that each of such alumni is personally acquainted with the applicant, that he is of good moral character, bears a good reputation in the community in which he resides, and, in the opinion of such alumnus, is a fit and suitable person for admission to the institution and able to pursue successfully the courses of study offered by the institution he desires to attend.

Each such applicant shall also submit a certificate from the Ordinary or Clerk of the Superior Court of the county in which the applicant resides that such applicant is a *bona fide* resident of such county, is of good moral character and bears a good reputation in the community in which he resides.

2. Any non-resident of the State applying for admission to an institution of the University System of Georgia shall submit a similar certificate from two alumni of the institution that he desires to attend, or from two reputable citizens of the community in which the applicant resides.

Every such applicant shall also submit a certificate from a judge of a court of record of the county, parish or other political subdivision of the State in which he resides that he is a *bona fide* resident of such county, parish or other political sub-division and a person of good moral character and bears a good reputation in the community in which he resides.

Students May Be Admitted to the University By One of the Following Methods:

1. By Presenting a Certificate of Graduation from an Accredited High School. The University will accept graduates from the approved high schools of Georgia and from any secondary schools of other states accredited by its state university. Candidates for admission who have been graduated from an approved high school with sixteen units or the equivalent will be accepted for admission. A minimum of fifteen units shall be offered for admission and shall be in the following fields:

English—3; Social studies—2; Mathematics—2 (one in Algebra); Science—1; other academic units—4; other units—3.

The Director of Admissions or the Admissions Committee may take into consideration the overall high school scholastic record, scores made on aptitude and achievement tests, personnel data and personal recommendations in determining a waiver of one or more of the prescribed units, other than English.

Fractional credits of a value of less than one-half unit will not be accepted. Not less than one unit of work will be accepted in a foreign language.

For those students who expect to become candidates for the degree of Bachelor of Science, Bachelor of Science in Chemistry, or Bachelor of Science in Agricultural Engineering, one unit of plane geometry is essential. Students who expect to take Agricultural Engineering must offer three units of mathematics, consisting of algebra or trigonometry, or both, 2 units, and plane geometry, 1 unit. Solid geometry also is strongly recommended.

2. By Presenting a State Department of Education Certificate of High School Equivalency or By Passing Entrance Examinations. These methods of admission are confined to persons over 21 years of age and to veterans whose secondary schooling was interrupted by military service. In general, the General Educational Development Tests, High School Level, will be used as a testing measure under this section. *No student having attended secondary school during the previous twelve months will be eligible for admission by this method.*

3. By Submitting Evidence of Studies Successfully Pursued at Another College or University. Students who apply for admission from other colleges or universities must furnish a statement of honorable dismissal and

an official transcript of the work done in said institution, together with a complete statement of the credits offered for entrance to the former school. These will usually be incorporated in the college transcript.

A student who has been dropped from another institution because of poor scholarship or for disciplinary reasons may not enter the University the following quarter. Said students will not be admitted to the University until such time as he has returned to his former institution and/or has been removed from probation.

The amount of credit that the University will allow for work done in another institution within a given period of time may not exceed the normal amount of credit that could have been earned at the University during that time. A maximum of 96 academic quarter hours from a junior college, or 141 academic quarter hours from a senior college may be applied toward a degree.

Not more than 10% of the hours transferred may be in the lowest passing grade. Credit for courses with the lowest passing grade may be given upon successful completion of a validating examination taken during the first quarter of residence. Application to take these examinations should be made to the Registrar. A "D" grade in English grammar and composition will not be transferred or validated.

The General Educational Development Tests, College Level, will be administered to veterans at the University Guidance Center in accordance with University regulations. Students with no previous college work should apply directly to the Director of the Center after admission is granted and prior to registration. Students with previous college work must apply for permission to take these tests through the Registrar. In general, this permission will not be granted if work has been pursued in the field or a related field of the subject area involved on the individual tests.

United States Armed Forces Institute (USAFI) courses are not recognized by the University unless they are completed through an accredited institution and provided that that institution grants recognized college credit for same. Such courses are regular correspondence courses and are administered under the Cooperating College Program of USAFI.

Inquiries concerning In-Service training should be directed to the Registrar. Evaluations of this training will not be made until such time as the student registers for residence credit on the University Campus.

4. Special Students. This classification applies to students who cannot meet entrance requirements. Persons over twenty-one years of age may be admitted in the undergraduate colleges of the University, provided they secure the approval of the Registrar and the dean of the college concerned. A special student may ultimately become a candidate for a degree by satisfying entrance requirements.

A special student is not eligible to take part in student extracurricular activities or to be initiated into a fraternity or sorority.

No one may enroll as a special student in any school or college of the University for more than two years.

The foregoing regulations regarding admission of students are applicable

to all schools and colleges of the University. Additional regulation apply to the Graduate School, the School of Law, and the School of Veterinary Medicine. The admission requirements of these schools are set forth in the sections of this catalogue devoted to them.

The University reserves the right to reject any applicant whose low record indicates that he is not adequately prepared to do college work even though he may meet the entrance requirements set forth above.

IRREGULAR STUDENTS

The policy of the University is not to allow students who can meet the entrance requirements (especially those under 21 years of age) to take irregular programs of work. Students who are granted special permission to pursue such a program will be classified as irregular students.

CHOICE OF SCHOOL OR COLLEGE

For a full explanation of each of the divisions of the University consult the section of the catalogue referring to that particular college or school. A student should register in the school or college in which his major interest lies.

If a student is undecided on his college or school, he should register in the College of Arts and Sciences.

In order to transfer from one school or college to another it is necessary to secure permission of the dean in whose school the student is enrolled and the permission of the dean of the school to which he expects to transfer.

DEGREES OFFERED BY COLLEGES AND SCHOOLS OF THE UNIVERSITY

The University offers courses of instruction leading to the following degrees:

1. In the Graduate School the advanced general degrees of Master of Arts, Master of Science, and Doctor of Philosophy and the advanced professional degrees of Master of Business Administration, Master of Chemistry, Master of Education, Master of Forestry, Master of Home Economics, Master of Art Education, Master of Music Education, Master of Landscape Architecture, Master of Laws, Master of Fine Arts, and Doctor of Education.

2. In the College of Arts and Sciences, the degrees of Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science, Bachelor of Science in Chemistry, and Bachelor of Science in Nursing Education.

3. In the School of Law, the degree of Bachelor of Laws.

4. In the School of Pharmacy, the degree of Bachelor of Science in Pharmacy.

5. In the College of Agriculture, the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Agricultural Engineering, Bachelor of Science in Landscape Architecture, and Bachelor of Landscape Architecture.

6. In the School of Forestry, the degree of Bachelor of Science in Forestry.

7. In the College of Education, the degree of Bachelor of Science in Education.

8. In the College of Business Administration, the degree of Bachelor of Business Administration.

9. In the School of Journalism, the degree of Bachelor of Arts in Journalism.

10. In the School of Home Economics, the degree of Bachelor of Science in Home Economics.

11. In the School of Veterinary Medicine, the degree of Doctor of Veterinary Medicine.

A student who satisfactorily completes advanced Military or Air Science may be awarded a commission as Second Lieutenant in the U. S. Army or U. S. Air Force in conjunction with the degree.

A graduate of any course may receive the baccalaureate degree of any other course by completing the additional studies required in that course and by meeting residence requirements for the second baccalaureate degree.

REGISTRATION AND PENALTIES FOR LATE REGISTRATION

A student who fails to register on the days set aside for that purpose will be subject to the following penalties: For the first day beyond the scheduled dates, $5 and for each succeeding day up to and including the fourth day, $2; or a total of $11.

No student will be admitted, except by special permission, after the expiration of the fifth day beyond the scheduled registration days.

An applicant for admission whose credentials have been passed upon favorably by the Director of Admissions should present himself at the Registrar's office. The applicant will receive from the Registrar a statement showing the procedure for registration. A student will not be permitted to attend classes in a course for which he is not registered.

PHYSICAL EXAMINATIONS

All new students (freshman and transfers) with the exception of those entering only for summer sessions, must have physical examinations by their family physician during the three months before registration. The physical examination blanks, obtainable at the Infirmary or Registrar's Office, should be mailed to the Gilbert Memorial Infirmary at least two weeks before registration. Physical examinations will not be given at the University. Students will experience delay and expense if the physical examination is delayed.

All students will be required to have chest X-rays which are free of charge. made during the Fall Quarter at the appointed time.

FRESHMAN REGISTRATION

The opening week of the fall quarter registration period in September is called "Orientation Week." It is a period designed to introduce freshmen to the University. This period will be devoted to X-rays, aptitude tests, lectures

and chapel exercises, conferences with advisers, and registration. Freshmen must attend all exercises held during the week set aside for them.

HOUSING FOR STUDENTS

Residence halls situated on the University campus accommodate approximately twenty-seven hundred students. Additional housing facilities at fraternity and sorority houses, religious student centers, YMCA and YWCA are also available to students. Private home and boarding houses list available space for single and married students with the University Housing Offices. The University does not reserve this housing since arrangements for it are made by personal interview between home owner and the individual applicant. Communications on housing should be addressed to Director of Men's Housing or Director of Women's Housing.

RESIDENCE HALLS FOR MEN

A reservation fee of $15 is required in advance for Fall Quarter only to assure space in any one of the men's dormitories on the campus. The above fee will be due upon official notification of dormitory assignment from the Housing Office. DO NOT SEND CASH. Make check or money order payable to the University of Georgia. The amount of the reservation fee will be deducted from room charges payable at time of registration. REFUND OF RESERVATION FEE CANNOT BE MADE after August 15 preceding the Fall Quarter. Notice of cancellation of room assignment with request for refund must be given IN WRITING to Director of Men's Housing.

If a student does not appear to occupy a room, or if official notification of a delay is not filed within the first five days of a quarter, the University reserves the right to cancel the reservation and to assign the room to another student. Once a University student accepts a dormitory assignment, he is obligated for the full quarter's rent, and he is expected to occupy the room for the entire quarter. Failure to occupy the room for the full quarter or any portion thereof does not release him from this obligation.

All freshmen, excluding veterans, married men, and those living with their parents or relatives, are required to live for one year in the dormitory that is designated as the "Freshman Dormitory," where a full time counselor is employed.

The room rate on dormitories on North Campus listed below is $48 per quarter and for South Campus $43 per quarter including flat work laundry. The laundry is picked up from the dormitory and returned once a week. Optional laundry consisting of wearing apparel is offered at an additional charge.

All rates are based on occupancy of two or more students per room. Rate for single occupancy will be an additional $18 per quarter. The Director of Housing reserves the privilege of granting or assigning single occupancy.

North Campus Dormitories are Clark Howell Hall, Joe Brown Hall, Milledge Hall, Payne Hall, and Reed Hall. Convenient dining facilities are at Denmark Hall. Rate for meals is approximately $122 per quarter.

South Campus Dormitories are Dudley Hall, Fain Hall, and Griggs Hall.

Convenient dining facilities are at Snelling Hall. Rate for meals is approximately $122 per quarter.

RESIDENCE HALLS FOR WOMEN

The importance of convenient and suitable living arrangements for women students is fully realized by the University, which provides residence halls for all women students not living in town with their families. Women students are required to live in University dormitories. The only exceptions are: Married students, graduate students, those living with close relatives or faculty families and those who are 23 years of age who have parental permission and a clear conduct record.

Housing preference forms will be mailed directly to students who have been officially admitted to the University by the Director of Admissions. RESERVATION FEE of $15, payable by check or money order to the order of the University of Georgia, must be attached to Housing Preference Form. DO NOT SEND CASH. NO DORMITORY ASSIGNMENT CAN BE MADE UNTIL RESERVATION FEE IS RECEIVED. The amount of reservation fee will be deducted from room charges payable at time of registration. REFUND OF RESERVATION FEE CANNOT BE MADE after August 15 preceding the Fall Quarter, or after December 10 preceding the Winter Quarter, or after March 5 preceding the Spring Quarter. Notice of withdrawal of room assignment with request for refund must be given IN WRITING to the Director of Women's Housing.

If a student does not appear to occupy a room, or if official notification of a delay is not filed within the first five days of a quarter, the University reserves the right to cancel the reservation and to assign the room to another student.

Mary Lyndon Hall, Rutherford Hall, and Soule Hall are located on South Campus and have accommodations for 107, 125, and 114 upperclass women students, respectively.

Jennie Belle Myers Hall is divided into three separate units. The North and South wings will accommodate a total of 325 freshman women while 143 senior and graduate women students may be accommodated in the Center Section.

The Room Rate for womens' dormitories is $50 per quarter including flat work laundry. Laundry allowance per week for women is one spread, two sheets, one pillow case, six towels and two wash cloths.

Dining Facilities are conveniently located. All freshman women students residing in University residence halls will have their meals in University dining halls. The rate for meals is approximately $122 per quarter and will be added to room charges at registration.

All rates are based on occupancy of two or more students per room. Rate for single occupancy will be an additional $12 per quarter. Rate for a private bath will be an additional $10 per quarter. Rate for those occupying suites will be an additional $5 per quarter. The Director of Housing reserves the privilege of granting or assigning single occupancy.

Dormitory Facilities for Men and Women Students. University operated

residence halls are opened on the afternoon of the day prior to the first day of registration and are closed on the day following the last scheduled date of examinations at the end of a quarter.

All rooms in the residence halls are furnished with single beds or double deckers, chairs, study tables, clothes cabinet or closet, and dressers or chest of drawers. Students are expected to furnish pillows, bed linens, blankets, and towels. It is suggested that students bring study lamps, dresser scarfs, and small rugs. Use of extra electrical heat appliances such as pressing irons, hot plates, heaters, etc., is not allowed in student rooms.

Housing for Married Students. Emergency housing has been established on the University campus; 137 units for married students without children, and 223 units for those with children. These units include trailers, efficiency apartments, one-, two- and three-bedroom prefabricated units. Assignments to these units are made from a waiting list which is established according to date of application filed with Director of Men's Housing. Preference is given to veterans.

Dining Hall. There are three University-operated dining halls situated conveniently to serve all the resident students. Each dining hall is supervised by a trained dietitian.

Laundry Service. The University operates a laundry as a convenience to its students and as a safeguard to their health. The quarterly charge made for dormitories includes the cost of flat work laundry.

Room and Board Refunds. A student withdrawing from the University will be charged a daily rate for room and board from the beginning of the quarter to the date of withdrawal. After deductions for these charges have been made, the balance of the student's payments will be refunded to him at the end of the quarter. No refund is made in case of a disciplinary suspension.

Payments for room and board will not be refunded to a student who, while continuing as a student in the University, moves to a private home or to a sorority or fraternity house, or who ignores a room assignment.

Room and Board in Fraternity and Sorority Houses. The majority of the local chapters of fraternity and sorority organizations at the University maintain a house which provides room and board for its members. There are fourteen sororities and twenty fraternities at the University.

All fraternity and sorority houses are under the general supervision of the office of the Dean of Students and his associates. All sorority houses and several of the fraternity houses have house directors who exercise an immediate supervision over the activities of the houses. Only those women students who have lived on the campus for at least one quarter and who are of sophomore standing or above will be permitted to live in sorority houses.

Reservation of Right to Change Fees. The University reserves the right to make changes in its fees and charges at the beginning of any quarter and without previous notice. This right will be exercised cautiously.

PROGRAMS FOR VETERANS

The University has a Veterans Division, which advises with former service men and women. The United States Congress has passed Public Laws 16 and 894 assisting disabled veterans and Public Law 550 (Korean Bill of Rights) which provides for other service men and women who were in the armed forces more than ninety days. Veterans applying under Public Law 550 should secure and fill out Form 7-1990 and forward it to the Veterans Administration to secure a Certificate for Education and Training which provides for an educational allowance.

The University has provided a Director to assist veterans in securing admission to the University of Georgia and in counseling with them about personal matters and problems. The veteran is advised to have available $250 to cover expenses for the first quarter as government subsistence checks will not arrive for two or three months after training begins.

On the campus is located a Guidance Center which offers its services to all students. Occupational tests and guidance are afforded students enrolled under Public Law 550 after they have secured a Certificate for Education and Training. All students under Public Law 16 or 894 are required to take counseling service.

ACADEMIC REGULATIONS

UNITS OF CREDIT

The unit of credit is the quarter hour. A quarter hour represents one hour of class work per week for one quarter or its equivalent in other forms of instruction. Two or sometimes three hours of laboratory work are considered as the equivalent of one hour of class work. The majority of the courses offered in the University meet five times per week for one quarter; such courses carry a credit of five quarter hours.

GRADING SYSTEM

Quarter grades are reported by alphabetical letter only, although they are commonly based on averages of numerical grades given on daily work and final examinations. The scale of letter grades is as follows:

A+	Exceptional
A	Excellent
B+	Very Good
B	Good
C+	Average
C	Fair
D+	Poor
D	Very Poor
E	Condition
F	Failure. No credit unless course is repeated.
I	Incomplete. This grade indicates that a student although doing satisfactory work was, for some reason beyond his control, unable to complete the course.

W This grade indicates that the student was permitted to withdraw from the course and that no grade was assigned.

WF This grade indicates that the student was permitted to withdraw from the course while doing unsatisfactory work. The dropping of a course under these circumstances is equivalent to a failure.

CHANGES IN GRADES

A grade in a course reported by the instructor to the Registrar and recorded cannot be changed except in the following circumstances:

E may be changed to D if so reported by the instructor within twelve months.

I may be changed to any grade if so reported by the instructor within twelve months.

Any grade will be changed upon a written statement by the instructor that the grade reported was a factual error.

A senior in line for graduation who makes a grade of F or D in his senior year in a course numbered 200 or above necessary for his degree will have the privilege of one re-examination, provided there is no opportunity to repeat the course. Grades in not more than two courses may be thus changed. Permits for a re-examination should be obtained from the Registrar's Office.

CLASSIFICATION OF STUDENTS

In the undergraduate schools and colleges of the University a student will be classified as a freshman, sophomore, junior, or senior, according to the number of quarter academic hours of work he has completed with an average grade of C or better. A student who has completed less than 37 hours of the number of hours required for graduation will be classified as a freshman. A student will be entitled to register as a sophomore when he has completed at least 37 hours; as a junior when he has completed at least 84 hours; and as a senior when he has completed at least 131 hours.

The classification under which a student registers at the beginning of the academic year will continue throughout that year.

Registration for Courses. Any student classified as a junior or senior must give priority at registration to all uncompleted freshman and sophomore courses required for his degree before continuing the major subjects or electives.

COURSE NUMBERS

Courses numbered from 1 to 199 are designed for freshman and sophomore students; those numbered from 200 to 399 are offered primarily for junior and senior students; courses taken by juniors and seniors along with graduate students carry the numbers 400 to 599 for undergraduates and 600 to 799 for graduate students. Courses numbered 800 to 999 are offered for graduate students only.

With the approval of the dean of his college or school, a student may include in his sophomore program as much as one-third of his work in courses falling within the junior-senior group; with the same approval

a student may include in his junior-senior program as much as one-third of his work in courses falling within the freshman-sophomore group.

NORMAL LOAD OF WORK

The normal load of work for freshman and sophomore students is 15 hours per quarter, exclusive of Military Science 1-2 or Air Science 5-6, and Physical Education 1-2. The normal load of work for junior and senior students is 15 hours per quarter except where otherwise stated in the published degree requirements. Veterans must carry 14 hours per quarter to draw full subsistence.

VARIATION FROM THE NORMAL LOAD OF WORK

The dean of a school or college may, at his discretion, authorize the following variations from the normal work load:

1. A minimum load of 10 hours.
2. An increase of from 1 to 3 hours: (1) When advanced military science is taken or when difficulty in making a practical schedule or a satisfactory program demands it; (2) students who had an average of B on the work of the three preceeding quarters may have this privilege during the succeeding three quarters; (3) students who had an average of B in the preceding quarter may have this privilege the succeeding quarter.
3. A maximum of 21 hours may be permitted: (1) students on the current Dean's List; (2) students not on the Dean's List but who had an average of "A" on the work of the preceding quarter; (3) first year transfer students who received an average grade of "A" on their last year's work in the institution from which they transferred; (4) students having 90 academic hours credit with no grade lower than "C" for the preceding quarter and having no "F," "WF," "E," or unremoved I for the preceding three quarters. (No student with less than 15 hours in residence is eligible.)
4. An increase of 10 hours (distributed over their last three quarters) for seniors who, at the beginning of any quarter, can, with this privilege, graduate in three quarters.

Under no circumstances is any student permitted to receive credit for more than 21 hours per quarter, exclusive of Military Science 1-2, Air Science 5-6, or Physical Education 1-2.

DEGREE REQUIREMENTS

Residence. The minimum residence requirement for a baccalaureate degree is three quarters, during which time a candidate must earn credits in courses numbered 200 or above of at least 45 hours with an average grade of "C" or better. It is required that at least thirty hours of the last three quarters' work before graduation be taken in residence and be in courses numbered 200 or above. It is also required that at least half the courses constituting a student's major study be taken in residence.

If a student elects to satisfy the requirement for the B.S. degree by substituting the first year's work in the Medical College of Georgia for his last year's work in the University, the residence rule as stated in the preceding paragraph is modified to the extent of reducing from 45 to 30 hours

the credits he must earn in courses numbered 200 or above after admisssion to senior division standing.

For candidates for the B.S. Nursing Education degree, "residence" is interpreted to include the Atlanta Division of the University as well as the Athens Campus.

Credits and Grades. Each candidate for a degree must secure credit in approved courses totaling at least the number of quarter hours required for a degree by the school or college in which he is registered, exclusive of courses in Military Science 1-2 or Air Science 5-6, and Physical Education 1-2. In securing this credit each candidate must have an average grade of not less than "C" in all grades received, excluding those in basic military science and physical education, and must not have grades below "C" in more than one-fourth of the total number of quarter hours earned.

The College of Arts and Sciences and several other colleges and schools require for graduation 185 quarter hours, exclusive of Military Science 1-2 or Air Science 5-6 and Physical Education 1-2. Some of the schools require a larger number of hours. Under the sections devoted to the several colleges and schools will be found statements of their exact requirements.

Correspondence and Extension Work. Not more than one-fourth of the work counted toward a degree may consist of courses taken by correspondence or extension.

Military and Air Science. All men students in the freshman and sophomore classes who are citizens of the United States and who are not physically disqualified or otherwise exempted must take the basic courses in military or air science and tactics. The basic courses are Military Science 1-2 and Air Science 5-6.

Physical Education. All non-veteran freshman and sophomore men and all freshman and sophomore women are required to complete, with passing grades, Physical Education 1 and 2. Students physically or organically handicapped will be assigned to special Physical Education classes. Students who have finished freshman and sophomore requirements in approved institutions will not be required to take Physical Education 1 and 2.

Examination on the Constitutions. Examinations on the Constitution of the United States and that of the State of Georgia, required of all persons receiving a degree from the University unless exempted by credit in courses dealing with these Constitutions, are given annually on the first Thursday after Washington's birthday and the first Thursday after the Fourth of July, at 3:30 in Room 212 of the Academic Building. A series of lectures to aid students in preparing for these examinations is offered during the two weeks preceding the examination in February. Special examinations for students having failed on or been absent from the regular examinations are offered on the first Thursday in May and the first Thursday in November, and in exceptional cases upon other dates.

Examination on United States and Georgia History. Examinations on the history of the United States and of Georgia are required of all persons receiving a degree from the University unless exempted by credit in courses dealing with this history.

Special Requirements. Candidates for degrees from the University must

show that they have met all general University requirements with respect to such matters as registration and payment of fees and the special requirements of the colleges or schools in which they have been registered as students.

All candidates for degrees should check with the Registrar and dean of their school or college their program for graduation three quarters prior to the date of graduation. Students who fail to perform this duty will forfeit any equity in the adjustment of errors or omissions made in their programs.

A candidate for a degree, unless excused in writing by the secretary of the faculty, must attend the graduation exercises at which he expects a degree to be conferred upon him.

The University reserves the right to withhold the diploma of a student who has completed all academic requirements if he is guilty of conduct which is morally reprehensible or is of such disorderly nature that could have been disciplined by expulsion.

MISCELLANEOUS REGULATIONS

Student Cars. Freshmen students are not permitted to have or to drive automobiles during their first year at the University.

High School Subjects Not to be Duplicated. No University credit will be granted for work in mathematics or other courses, except for the special provision applicable to foreign languages, taken at the University when such work in a repetition of studies already completed in high school. A student continuing a foreign language taken in high school will be placed in the appropriate course on the basis of placement tests and other pertinent information.

Forfeiture of Credit. By registering for a course for which he has already received credit either by work at the University or by transfer of credits from another institution, a student forfeits the previous credit in that course. The student's final grade in the course will be the one made on the repetition.

No Extension Work by Residence Students. Extension or correspondence work for University credit may not be taken by a student while registered as a resident student, except in extraordinary cases and when authorized by the dean of the college or school as a part of the student's normal load of work.

Changes in Courses. Changes in a student's program of courses may be made only with the approval of the dean of the college or school in which the student is registered. Changes will not be permitted unless requested during the first four days of the quarter. A service fee of $2 may be assessed for each change, though no charge will be imposed for changes made necessary by University regulations.

Dropping of Courses. A student may not drop a course without the permission of the dean of his college or school. Veterans must notify the Director of the Veterans Division.

Admission to Examination in a Course Taken in the University. No

student who has not registered for the course will be admitted to the final examination, and only under extraordinary circumstances will he be admitted to the examination unless he has attended at least 50 per cent of the total class and laboratory exercises held in the course.

Special Course in Reading and Study Skills, Designated Psychology 99. This course is required of all freshmen designated on the basis of Placement Tests. Designated freshmen will not be admitted to second quarter of freshman English until satisfactory completion of this course is reported by the instructor. With the approval of the instructor, students not included on this list, but referred by faculty members, may register for the course. Such students will not exceed one-fourth the size of the class.

Class Attendance. All students are expected to attend regularly the meetings of classes in courses for which they are registered. A student who incurs an excessive number of absences may be placed on probation or dismissed from the University.

Absences From Classes Before and After Holidays. A student who is absent from any class or regular University exercise on the day before or the day after a holiday period and who has no valid excuse for such absence may be required to pay to the University treasurer a fine of $2 for each of the days on which an absence occurred. Validity of the excuse will be determined by the registrar.

Student Conduct. A student is expected to show under all circumstances a proper respect for order, morality, and the rights of others, and such sense of personal honor as is demanded of good citizens.

Social Probation. For any serious or repeated infraction of regulations, a student or group may be placed on social probation which indicates that any further infraction of regulations may cause suspension from the University.

The University reserves the right to exclude at any time students whose conduct is deemed improper or prejudicial to the interests of the University community.

Withdrawal From the University. No student is permitted to withdraw from the University after registration for a term without notifying the Dean of Men or Dean of Women, who shall notify the Registrar and the student's parents. Veterans receiving allowances under any of the acts of Congress must also notify the Director of the Veterans Division. Refunds will be based on the date of such notification.

A student against whom charges are pending will not be permitted to withdraw from the University until such charges shall have been adjudicated.

In general a student voluntarily withdrawing may return later if scholastically eligible.

Reports to Parents. At the close of each quarter reports of students' grades will be mailed to parents or guardians. In the case of freshmen, a report will be made at the end of the first six weeks of the fall quarter.

Reports will also be made to the parent regarding any official action that has the effect of placing a student on probation or of excluding him from the University.

SCHOLASTIC PROBATION AND DISMISSAL

Probation. A student who fails to pass in any quarter at least ten hours of work (exclusive of basic military or air science and physical education) shall be placed on scholastic probation. A student remains on scholastic probation until he passes 15 hours** of work in one quarter. No student will be credited with the completion of the requirements for graduation while on probation unless he passes every course taken during that quarter.

Dismissal.

1. A student, other than a first quarter freshman,* MUST pass at least five** hours of work in any one quarter or be dismissed from the University.

2. A first quarter freshman who passes less than five hours of work MUST be dismissed from the University but he will be permitted to apply for readmission for the following quarter. If he elects this privilege he must, prior to his registration, go through the testing and advisement procedure provided by the counseling organization in the administration of the Dean of Faculties. His readmission shall be decided upon by a committee composed of his academic Dean, the Dean of Faculties and the Director of the University Guidance Center. If the freshman is readmitted he shall repeat at least five hours of the work he failed during the first quarter. These five hours plus an additional five academic hours (exclusive of remedial courses) shall be the work which, in accordance with Item 3 below, he must pass or be dismissed.

Whether or not the freshman elects this privilege, a scholastic dismissal will be entered on his record and the next scholastic dismissal will become final.

3. A student on scholastic probation must pass 10 hours** of work in one quarter or be dismissed.

4. A student on scholastic probation for three consecutive quarters must be dismissed.

Counseling. Every quarter students with poor scholastic records should be advised that unless their record improves markedly in the next quarter they should withdraw from the University. Such students should be warned that they may be dismissed.

Dismissed Students Readmitted on Probation. No dismissed student may be readmitted before the expiration of one quarter. As a condition precedent to readmission, the student must go through the testing and advisement procedure provided by the counseling organization under the administration of the Dean of Faculties. Should the counseling officers report that the student is competent to carry on college work, the dean of his college may readmit him. If a dismissed student should be readmitted by the dean of his college or school he shall be on scholastic probation until he has passed fifteen hours** work in one quarter.

Dismissal for Declining to Fulfill ROTC Agreement. Students who de-

*A first quarter freshman refers to a student who has had no previous university or college work at any institution.
**Exclusive of basic military or air science and physical education.

cline, after consultation with appropriate ROTC and University officials, to fulfill the terms of their ROTC deferment agreements pertaining to undergraduate work at the institution will be permanently dismissed immediately.

Admission to Another College or School. A student dismissed from a college or school may not transfer to another college or school until after the expiration of his period of dismissal, and then only with the consent of the deans of the two colleges or schools involved. The dean of the college to which admission is sought should take the initiative in the matter of transfer by conferring with the dean of the college from which the student was dismissed.

Permanent Dismissal. If under the operation of these rules a student should be dismissed a second time, the dismissal shall be permanent.

Eligibility for Student Activities. A student who is on scholarship probation is not eligible for participation in any extra-curricular activity or to represent the University or student body in any official capacity. This includes members or managers of athletic teams, debating teams, glee clubs, dramatic clubs, student publications, campus leaders, officers of the fraternity and sorority council, officers of student government, officers of any other activities, which, in the judgment of the Director of Student Activities, should be included. A student who is ineligible because of a conditional grade which placed him on probation may become eligible by removing this conditional grade. Students on conduct probation are ineligible to participate in such activities as those above mentioned.

HONORS

The University strives to promote excellence in scholarship by giving official recognition to those students whose scholastic work is of a superior character. It also recognizes outstanding ability in speaking, writing, and other forms of scholarly activity.

GRADUATION WITH HONORS

The University awards degrees with honors to candidates who achieve specified scholastic records. Not more than 45 quarter hours taken at other institutions may be applied to the degree with honors requirements. Such transferred hours that are used must have a grade of A or A+. The specified scholastic records and honors are: cum laude for an average of 90.0 to 92.9; magna cum laude for an average of 93.0 or better; summa cum laude for a record with all grades A or A+.

INDEPENDENT STUDY

A junior or senior student of superior scholastic standing who wishes to pursue independent study in a particular subject may do so upon the recommendation of his major professor and the approval of the Executive Committee of the College of Arts and Sciences.

VALEDICTORIAN

In the spring of each year the Registrar prepares a list of the names of the five members of the graduating class who have the highest averages on the work done in the University of Georgia. From this list the members of the senior class choose a valedictorian. A student is not eligible for this honor unless all of the work of his junior and senior years is taken in residence at the University.

HONOR FRATERNITIES AND SOCIETIES

Several honor fraternities and societies at the University extend recognition to students on the basis of scholarship and good character. There are chapters of Phi Beta Kappa, Sigma Xi, Phi Kappa Phi, and of many college, school, and departmental honor societies. Membership in these societies is highly prized in educational circles.

HONOR LIST

Near the close of the college year, an Honor List is made up for all classes on the basis of the work of the year. The first group on this list constitutes the Dean's list and consists of those who have made an average grade of 90 or whose grades place them in the upper five per cent of their class. The second group in the Honor List consists of those whose grades place them in the upper ten per cent of their class but whose names are not included in the Dean's List. In the case of freshmen and sophomores, the Honor List is made on the basis of the total enrollment in all of the schools and colleges of the University.

One day of each year is set aside as an occasion for according special recognition to those students whose names appear on the Honor List and those who have been elected to the Phi Beta Kappa, Phi Kappa Phi, Sigma Xi, or who have obtained other scholastic honors.

UNDERGRADUATE SCHOLARSHIPS, HONORS, AWARDS AND PRIZES

Unless otherwise specified these scholarships, honors, awards, and prizes are open to both men and women.

Agricultural Engineering Faculty Award. Each year the faculty of the Department of Agricultural Engineering gives special recognition to those students in the department whose accomplishments have been outstanding. The awards are made on the basis of scholastic attainment, character, and leadership. The names of those selected are engraved on a bronze plaque. Each student selected receives a one-year membership in the American Society of Agricultural Engineering.

Alpha Gamma Rho Scholarship. This award of $200 is made to a Freshman boy in agriculture, forestry, veterinary medicine, agricultural engineering, or agricultural education and is given to the 4-H boy ranking highest in scholarship from the candidates nominated annually by each State 4-H Club Leader.

Alpha Kappa Psi Prize. The Alpha Kappa Psi national commerce fraternity awards annually a gold pin to that member of the junior class of the College of Business Administration, who, in the opinion of the faculty of the College, has made the best record during the year. The award is based on scholarship and character.

The American Foundation for Pharmaceutical Education offers two scholarships of the value of $50 each per quarter, or $200 each per year of four quarters. These scholarships are awarded to men and women in the upper one-third of the graduating class who are in need of financial assistance and who can present proper letters of recommendations. For information on these scholarships, prospective applicants should write the Dean of the School of Pharmacy.

Art Advancement Fund. A limited number of scholarships are awarded annually from the Fund for the Advancement of Art. The recipients of the awards are selected by a committee composed of members of the art faculty and a representative of the students.

Art Students' League Awards. Awards may be given for the outstanding works of art shown in the students' exhibition at the end of the school year after the Shorter Awards are given. The art faculty and a committee of Art Students' League members form a jury to select the work.

Band Scholarships. The University, in cooperation with the Athletic Association, provides a limited number of scholarships to persons playing in the University Band. Recipients are chosen by the Band Director.

Borden Award. A $300 annual award to the senior in the School of Home Economics who made the highest average in her junior year and who has completed certain prescribed courses in Foods and Nutrition.

Bryan Prize. The late Williams Jennings Bryan gave to the University the sum of $250 and directed that the income of this amount be awarded annually as a prize to that student who writes the best essay on the democratic form of government. Essays are submitted to the Head of the Department of Political Science and are judged by a committee of the faculty of this department.

Edward A. Burdette Memorial Medal. This medal is offered by Mrs. L. G. Daingerfield in memory of her son, Edward A. Burdette. It is awarded to that member of the senior class, who, in the judgment of the faculty of the English Department, has done the best work as a major student in the field of English.

Nathan Burkan Memorial Competition. The American Society of Composers, Authors, and Publishers annually offers a cash award of $100 to that student of the graduating class who submits the best paper on *Copyright Law*. Selection is made by Law faculty.

Chi Omega Prize. The Mu Beta Chapter of the Chi Omega Society offers a prize of $25 to the outstanding woman student in sociology, economics, psychology, and political science in rotating order. For the year 1954-1955 the prize will be awarded in political science. In order to be eligible for this prize, a student must take at least three courses per quarter throughout the year.

Chi Psi Award. The National Chi Psi Fraternity gives $200 annually to the outstanding student member of the local Chi Psi Fraternity. The committee making the selection is composed of a representative from the Dean of Men's Office and two alumni of the local chapter.

Joe Brown Connally Prize. This prize of $100 was established by his family in memory of Joe Brown Connally. It is awarded annually to that member of the junior class who is most proficient in Georgia history. Selection made by Head of the History Department in consultation with the instructor of the class in Georgia History.

Dairy Scholarships. Awards of $200 are made to entering freshmen on the basis of high school record, objective tests, character and maturity, educational purpose of the applicant in terms of his interest in the dairy industry and the phase of the work in which he intends to major in college, and financial need. Selection is made by the Dairy Department.

Dairy Products Judging Award. Trophies and products are given by various commercial companies to encourage interest in the Dairy Products Judging Contest, which is open to all students interested in judging dairy products.

Davis Brothers Scholarship. The W & L Food Stores Corporation annually gives $600 to be used for scholarships of at least $100 and not to exceed $200 to students who are residents of Georgia, Florida, or Kentucky of ten years standing or who intend to make their home in Georgia, Florida, or Louisville, Kentucky, after college. Selection is made on the basis of potential promise in their chosen vocational field and financial need.

Debators Medal. The University awards annually a key to each of the six members of the freshman class who are selected by the Debate Council for membership on the Freshman Debate Team.

Delta Air Lines Scholarship in Aeronautical Administration. Created in 1951 by a principal gift of $5,000 from Delta Air Lines, Inc., it is administered by the University of Georgia Foundation and provides for an annual award of $300 to a selected student majoring in aeronautical administration, available for both junior and senior years for the winner.

Delta Delta Delta Scholarship. A fund set up by the local chapter of the Delta Delta Delta Sorority and the national organization to aid a junior or senior woman to continue her studies. Application blanks may be secured from the Secretary of Scholarship Committee. Recommendations are made to the national sorority by a local committee; final awards are made by National Office of Delta Delta Delta.

Delta Sigma Pi Scholarship Key. The Delta Sigma Pi national commerce fraternity awards annually a gold key to that member of the senior class of the College of Business Administration, who, in the opinion of the faculty of the College, has made the best record during the year. The award is based on scholarship and character.

Lamar Dodd Award. The University of Georgia Art Students' League gives to a student in the Art Department an award called the Lamar Dodd Award for outstanding work and service. Usually, but not necessarily, this award is given to a senior. The award consists of the student's name being

engraved on a cup which remains the property of the Art Department. Students and faculty of the department make the selection.

Durr-Schaffner Scholarship. Mr. and Mrs. Roy Durr, Durr Schaffner Poultry Company, give each year one scholarship of $1600 for a student in poultry husbandry. The scholarship is for four years, $400 each year, provided the recipient maintains the necessary scholastic average.

P. W. Fattig Scholarship. The Georgia Entomological Society sponsors this scholarship in memory of one of its most distinguished charter members. The fund is administered by the University of Georgia Foundation and the interest will be used as tuition scholarship for one or more junior or senior students majoring in entomology. Selection will be made by a committee headed by the Head of the Department of Entomology.

The Felton Fund. This fund was established by the will of Rebecca Latimore Felton in memory of her children, and is to be used to educate and assist in the education of men students. The fund is administered by the First National Bank of Atlanta.

Freshman Scholarships. One hundred competitive scholarships are awarded freshmen each year. The value of each scholarship is $180, covering fees of $60 per quarter. Selection is made by the Freshman Scholarship Committee.

Gair Woodland Corporation Scholarships. $500 is awarded annually to a freshman forestry student as selected by the committee and is renewabel each year for four years.

Georgia Canners Association Scholarship. Established for the year 1955 by the Georgia Canners Association this scholarship of $250 is to be awarded to a deserving student majoring in food technology.

Georgia Colonial History Prize. The Athens Town Committee of the Georgia Society of Colonial Dames of America offers annually a prize of $50 for the best paper on some topic of colonial Georgia history, written by any University student.

Georgia Power Company Scholarship. Awarded to students who are residents of Georgia for outstanding service in the field of Agriculture.

Georgia Scholastic Press Association Scholarships. Two scholarships yearly to high school graduates equivalent in value to the matriculation fee. The winners are chosen by the faculty of the School of Journalism through the GSPA upon recommendation of the faculty advisers of the various high school publications of the state. Correspondence concerning these scholarships should be addressed to the Dean of the School of Journalism.

Georgia Seedsman Association Scholarship. Awarded annually in the amount of $400 to a junior student for work in a project dealing with the use of commercial seed.

Lt. Joel Hirsch Goldberg Memorial Fund. Established in 1954 by the B'nai B'rith Women of Atlanta in memory of Lt. Joel Hirsch Goldberg, son of their founding president, and an alumnus of the University, this fund provides an annual state tuition award to a deserving student. Selection is made by the University Scholarship Committee.

James Coffee Harris Award. A cash award to a junior student in the School of Home Economics as selected by a faculty committee on the basis of superior grades in Home Economics and English and who is in need of financial assistance.

Harrison Prize. The Harrison Company, law-book publishers of Atlanta, Georgia, offers as a prize to that member of the law graduating class who makes the highest average during his senior year a copy of *Powell's Action for Land.* Selection is made by the Law faculty.

Walter B. Hill Prize in Ethics. The late Judge Horace Russell established an annual prize of $50 that is awarded to the student who writes the best essay on a subject in the field of Ethics assigned by the Professor of Philosophy. Award is made by a committee chosen by the faculty of the Philosophy Department.

Interfraternity Council Scholarship. An annually awarded state tuition scholarship which goes to a sophomore boy selected by a committee on the basis of his freshman scholastic record, his participation in campus activities, and his financial need.

Earl Jenkins Memorial Award. Established by Mrs. Gladys Beach, this is an annual award of $100 to an outstanding junior in the School of Forestry.

Sallie Maude Jones Scholarship. One-third of the net income under the will of Miss Sallie Maude Jones is set up for the purpose of aiding needy and deserving girls in the College of Education. Selection is made by a committee from the College of Education.

Junior Orators' Prize. The University awards annually a silver loving cup to that member of the junior class who delivers the best original oration. Sponsored by Demosthenian and Phi Kappa Literary Societies, judged by members of University faculty.

George D. Kitzinger Honorary Award. The most outstanding 4-H Club boy and 4-H Club girl as named by the State 4-H Club office share equally the annual income from a fund set up by George D. Kitzinger for Georgia 4-H Clubs.

Kroger Company Scholarship. Four scholarships of $200 each are awarded by the Kroger Company to Georgia high school graduates who enter the College of Agriculture and the School of Home Economics the Fall Quarter. Application blanks may be obtained from the Dean of the College of Agriculture and the Dean of the School of Home Economics and must be filed by July 1.

Joseph Rucker Lamar Scholarship. A committee from Richmond Academy, Augusta, Georgia, awards scholarships annually to students attending the University of Georgia in Athens.

Lawyers Co-operative Publishing Company Prize. The Lawyers Co-operative Publishing Company offers as a prize to that member of the class in Legal Bibliography who makes the highest grade a copy of *Ballentine's Law Dictionary.* Selection is made by Law faculty.

Dan MacDougald Memorial Fund. Created on August 24, 1953, by gifts exceeding $5,000 from friends and associates of Dan MacDougald, first

honor graduate of the Law Class of 1910, to benefit the School of Law and honor Mr. MacDougald's memory. It is administered by The University of Georgia Foundation and provides for an annual cash award of the net income to the first honor graduate of the School of Law.

Hamilton McWhorter Prize. Hamilton McWhorter of the Class of 1875 and his family provided for an annual award to that member of the Freshman Class of the University selected from the group having the highest scholastic average for the year's work on the basis of service and leadership as demonstrated by participation in campus activities.

Isaac Meinhard Memorial Award. A fund of one thousand dollars from which the net annual income is used to provide an annual prize for the student who has the highest average grade for all of his law work. Selected by Law faculty.

Quimby Melton-Griffin News Prize. A prize of twenty-five dollars given by Quimby Melton, editor and publisher of the *Griffin News*, to the winner of an essay contest, the subject of the essay and the number of words determined by the donor. A committee of judges is appointed by the Dean of the School of Journalism and Mr. Melton.

Bert Michael Scholarship. The family of the late Bert Michael of the class of 1912 gave to the University a fund of $1,000. The income of this fund is awarded annually as a prize to that member of the junior class who is selected by a committee of the faculty. In making the award the faculty committee considers scholarship, qualities of character, and also financial need.

Music Scholarships. The Music Department offers to outstanding students majoring in music a limited number of scholarships varying from private lesson charges to state tuition charges. These include scholarships for band, string, piano, and voice.

Omicron Delta Kappa Prize. The Omicron Delta Kappa honorary fraternity awards annually a silver loving cup to that male student in the University who makes the highest scholastic average during the academic year. In order to be eligible for this prize, a student must have been in residence at the University for three quarters.

Phi Kappa Phi Scholarship. A state tuition scholarship awarded to the freshman student with the highest scholastic average for the first year's work at the University who returns to school the following Fall Quarter for the sophomore year.

Poultry Scholarships. Awards of $200 are made to entering freshmen on the basis of their high school record and who wish to major in Poultry Husbandry in college. Selection is made by the Poultry Department.

Purina Mills Scholarship. The Purina Mills Company of St. Louis gives a scholarship that consists of paying the recipient's expenses for one month of study in the factories and laboratories of the company and a leadership course on Lake Michigan to an outstanding member of the junior class in Animal Husbandry. The staff of the Animal Husbandry Department makes the selection.

Rayonier Corporation Scholarship. An annual award of $500 to a senior forestry student as selected by the Committee.

Redfearn Prize. Mr. D. H. Redfearn, '09, of the Miami bar offers a prize of $50 to the law student writing the best article on *Suggested Changes in the Remedial Laws of Georgia.* Selected by Law faculty.

The Neel Reid Memorial Scholarship in Landscape Architecture. The Peachtree Garden Club of Atlanta in 1947, as a memorial to Neel Reid, established a fund, the income of which is to be awarded to a student in the Department of Landscape Architecture who has shown outstanding proficiency in landscape design. The stipend is $500.

Mary Rosenblatt Art Scholarship Fund. Mr. and Mrs. William L. F. Rosenblatt in 1949, as a memorial to their daughter, Mary Lillian Rosenblatt, a member of the Art Staff of the University from 1929 through 1934, established a trust fund with the University of Georgia Foundation. The income is to be used to aid worthy students in the Department of Art. Application should be made with the Head of the Department of Art.

Horace Russell Prize in Psychology. The late Judge Horace Russell established an annual prize of $50 that is awarded to the student who writes the best essay on a subject in the field of psychology assigned by the Professor of Psychology.

St. Regis Paper Company Scholarship. Open to forestry students who have completed the sophomore year including the summer camp program. Selection is made by a Regional Committee on the basis of scholastic achievement and leadership. The scholarship is valued at $800 each for a junior and a senior student.

Savannah Sugar Refining Corporation Scholarship. An award of $250 for the academic year 1955-1956 to a student majoring in food technology, first preference for an entering freshman and second choice to a junior transfer student.

Jessie Woodrow Sayre Prize. The Jessie Woodrow Sayre Scholarship Foundation provides $100 annually to be used as a prize for the student of the College of Arts and Sciences who submits the best paper on World Relations. Papers are submitted to the Head of the Department of Political Science and are judged by a committee of the faculty of the College of Arts and Sciences.

Sears, Roebuck and Company Scholarships. Annual scholarships of $200 awarded to entering freshmen in the College of Agriculture and the School of Home Economics.

Shorter Awards. Five purchase prizes of $20 each are offered by Edward S. Shorter, Columbus, Georgia. These prizes are given to students of the Art Department for work of outstanding merit selected by the faculty of the department. Works receiving these awards will remain the property of the department.

Sigma Delta Chi Scholarship Awards. The Sigma Delta Chi national journalistic fraternity awards annually a certificate and key to the outstanding male senior in journalism. He is selected by a committee composed of the president of the local chapter of Sigma Delta Chi, the faculty adviser of the chapter, and one alumni member. In addition, Sigma Delta

Chi awards annually certificates of distinction to those graduates of the School of Journalism who stand in the upper ten percent of their class.

Sophomore Declamation Prize. The University awards each year a silver loving cup to that member of the sophomore class who is adjudged to be the best declaimer. Sponsored by Demosthenian and Phi Kappa Literary Societies, judged by members of the University faculty.

Special Scholarship Awards. From various sources the University has funds available for scholarship grants which may be awarded according to the provisions of the donations. These scholarships range in amounts from tuition and fees to all necessary expenses to attend the University.

Swift and Company Scholarship. Swift and Company of Chicago offers a scholarship that consists of paying the recipient's expenses in Chicago for one week of intensive instruction in livestock marketing to the student who writes the best essay on some phase of livestock marketing. This scholarship is administered by the Animal Husbandry Department.

Lamar Trotti, Jr., Scholarship. An annual scholarship of $300 awarded to a worthy student of Tallulah Falls School, Tallulah Falls, Georgia, to attend the University of Georgia. Recipient is named by a committee composed of members of the Young Matrons Circle for Tallulah Falls School, Atlanta, Georgia.

U. D. C. Scholarships. Yearly scholarships, equivalent in value to the matriculation fee. Recipient, who is selected by the Laura Rutherford Chapter of the U. D. C. of Athens, Georgia, must be a lineal descendant of a Confederate veteran. Correspondence concerning this scholarship should be addressed to the Laura Rutherford Chapter of the U. D. C.

A similar scholarship is awarded a student named by the national organization of the United Daughters of the Confederacy under its rules governing the award. Correspondence concerning this should be addressed to the National Office of the U. D. C.

Union Bag and Paper Corporation Scholarship. Each year three entering forestry freshmen (one F.F.A. member, one 4-H Club member, and one from other sources) are selected by the committee for annual awards of $600 plus tuition.

University Theatre-Thalian-Blackfriars Scholarship. Two state tuition scholarships are awarded each year to outstanding high school seniors for study in Speech and Drama. Selection is made by the Department of Speech and Drama.

The Willcox Prize in French. This prize was founded in 1896 as a memorial to their father by the sons of Professor Cyprian Porter Willcox, who, from 1872 until his death in 1895, filled with great distinction the chair of Modern Foreign Languages at the University. It will be offered to a student who has, in the opinion of the department, achieved excellence in French at the intermediate level. The nature of the award will be announced by the Department of Modern Foreign Languages during the course of the academic year.

The Willcox Prize in German. This prize was founded in 1896 as a memorial to their father by the sons of Professor Cyprian Porter Willcox,

who, from 1872 until his death in 1895, filled with great distinction the chair of Modern Foreign Languages at the University. It will be offered to a student who has, in the opinion of the department, achieved excellence in German at the intermediate level. The nature of the award will be announced by the Department of Modern Foreign Languages during the course of the academic year.

R. C. Wilson Award. Created in 1947 by I. Z. Harris of the class of 1915 in honor of Robert C. Wilson, Dean Emeritus of the School of Pharmacy, this annual award of at least $50 goes to the "outstanding Pharmacy senior" elected by Pharmacy students. This fund is administered by the University of Georgia Foundation.

Xi Sigma Pi Award. The Forestry Club of the University offers a prize of $10 to that member of the freshman class of the School of Forestry who does the most outstanding work during the year. Selected by a committee from the organization.

For further information concerning any of the above scholarships, write to the Director of Placement and Student Aid.

Fellowships, scholarships, and prizes for graduate students will be found under Graduate School.

STUDENT LIFE AND ACTIVITIES

STUDENT COUNSELING

The University maintains certain counseling and guidance services for all of its students. Each academic dean either personally or through appointed assistants guides each student in his academic problems, especially in arranging schedules, the completion of degree requirements, problems about probation and other problems of an academic character. In addition counseling and guidance services of other sorts are available. The Dean of Men and Dean of Women and their staffs are especially concerned with problems which do not lie entirely in the academic field. Attached to these staffs are counselors to men and women students. The Guidance Center has testing and clinical services available for certain testing programs and for special cases of any nature referred to it by the other counseling units. The staff of the Psychology Department has been active in the counseling of students. The College of Education has a counseling clinic especially for its students set up as part of its teaching program. The Office of Placement and Student Aid offers financial and vocational guidance service to all students, especially for seniors or those seeking work either on or off the campus.

The University is attempting to maintain close personal relations between the students and the faculty members; and a part of each teacher's duties is personal conferences and the personal guidance of students, whether formal or informal in nature.

STUDENT HEALTH SERVICE

The Department of Student Health was established for the protection and care of the health of students attending the University. In 1940 Judge

Price Gilbert gave to the University funds for the erection of a new infirmary. This building is known as Gilbert Memorial Infirmary.

The doctor is in the infirmary from 9 A.M.-1 P.M. and 2-5 P.M. weekdays and until noon on Saturday. The nursing staff is on duty constantly and will be in contact with the doctor at all times. Physical examinations are to be done by the home physician and sent to the infirmary two weeks prior to the opening of the quarter. Students desiring first aid or who are ill are seen by the doctor or nurse in the order in which they arrive and emergencies are seen at once. Students requiring hospitalization are admitted and treated in the infirmary, except for some contagious diseases and for surgical operations. A charge of $2.50 per day is made to cover costs of meals and bed linen for patients admitted. Routine X-ray and laboratory facilities are available at the infirmary; more specialized procedures must be referred to the proper department of local hospitals.

The University does not attempt to provide the services of various specialists, dental care, special nursing, or other unusual treatment as a regular part of its health program. When such services become necessary, the University physician (preferably after consultation with the parents of the student involved) refers the case to a local specialist or consultant. The infirmary fee does not cover the cost of such special services. In case of an operation or certain types of contagious diseases, the specialist will place the student in one of the two local hospitals, at the expense of the student, or if able to travel the student will be sent to the home physician.

UNIVERSITY LECTURE SERIES

Each year several distinguished speakers and artists are brought to the University. The object of these programs is to offer to the students the advantages of cultural entertainments. Every student during the period of his residence at the University has the opportunity to see and hear some of the most renowned figures in the artistic, literary, and scientific worlds.

ART, DRAMA, AND MUSIC ACTIVITIES

The Art Department presents exhibitions of the work of both old and contemporary artists in a constantly changing series. The Art Students' League sponsors painting and sketching trips, auctions and exhibitions of student work as well as other related art activities which are open to students of the entire University.

The Art Students League, in cooperation with the Department of Art, sponsors an annual auction of faculty and student work, the proceeds of which are placed in the Fund for the Advancement of Art.

The University Theatre of the Department of Speech and Drama produces either one or two major productions each quarter. All students of the University are eligible to participate in any phase of these productions.

The Department of Speech and Drama, in conjunction with the University Theatre, brings outstanding professional companies to the campus of the University of Georgia during the year.

Music activities include the Men's Glee Club, the Women's Glee Club,

the A Cappella Choir, the Madrigal Group, the Symphony Orchestra, the University Band, and a dance orchestra. The Men's Glee Club makes at least one tour each year.

Occasionally students particularly qualified for the band or orchestra have the opportunity of earning a small amount for their services to these groups. This opportunity is often spoken of as a student activity scholarship but in reality it is part-time work.

Music Appreciation Hour, conducted every Thursday by the head of the Music Department, is designed to teach students to enjoy good music. This hour has been very popular with the students and with the people of Athens.

ATHLETIC PROGRAM

The University appreciates the interests and needs of men and women students in the field of sports activities. To develop the interests and fulfill these needs the University sponsors a program of intercollegiate athletics and intramural sports activities for men and intramural sports activities for women.

The intercollegiate athletic program includes football, basketball, baseball, track, tennis, golf, swimming, cross country, and rifle marksmanship.

The men's intramural sports program includes touch football, basketball, softball, golf, tennis, track, badminton, swimming, horseshoes, volleyball, and bowling.

The women's intramural sports program, sponsored by the Department of Physical Education for Women and the Women's Athletic Association, includes volleyball, swimming, horseshoes, golf, basketball, bowling, table tennis, badminton, softball, tennis, archery, and others.

FORENSIC ACTIVITIES

True to the traditions of southern oratory and debate, the University offers four debating societies to the students: Demosthenian Literary Society and Phi Kappa Literary Society (for men), Pioneer Club (for women), and Agricultural Club (for agricultural students). Throughout the year intersociety debates and orations maintain unusual interest in the societies.

Apart from the literary societies the University sponsors debating teams open to men and women students. The teams engage the outstanding colleges of the South and of the nation.

STUDENT PUBLICATIONS

Student publications include two of a campus-wide nature, *The Red and Black* (weekly newspaper) and *Pandora* (the University year book). In addition to these campus-wide publications there are certain student publications sponsored by the various schools and colleges or by organizations on the campus. Among these are: *Georgia Agriculturist* (monthly magazine in the College of Agriculture), *Cypress Knee* (publication of the School of Forestry), *The Georgia Clover Leaf* (year book of 4-H Clubs), *Georgia Agricultural Engineer* (year book of the Department of Agricultural Engineering), *The Georgia Dairyman* (publication of the Dairy Science Club), and *The Georgia Pharmacist* (quarterly publication in the School of Pharmacy).

STUDENT UNION

The Student Union in Memorial Hall conducts a wide variety of recreational programs and activities. The Union is operated by a director and a board of students. Table tennis and billiard tables are available as well as a large lounge with phonograph, television, and radio. Special musical and film programs and student socials are offered.

RELIGIOUS ORGANIZATION

The University maintains a Chaplain and Assistant Chaplain for the spiritual guidance of its students. Under the direction of the Chaplain's office is the general non-denominational religious organization, the University of Georgia Religious Association. Operating largely through its student officers, the Religious Association holds religious programs each week throughout the regular sessions. The Association also cooperates with the local church student groups in assisting them with special projects and in promoting major religious events for the campus.

FRATERNITIES AND SORORITIES

Social organizations on the campus include men's Greek letter fraternities and women's Greek letter sororities. These organizations, as well as many clubs and societies of a social nature, provide the campus with many social functions during the year.

FEES AND EXPENSES

FEES PAYABLE ON REGISTRATION

Matriculation Fee. Resident Students. Each student who is a resident of the State of Georgia is required to pay during the registration period at the beginning of each quarter a matriculation fee of $57.50.

Non-Resident Tuition. Every non-resident student shall pay during the registration period at the beginning of each quarter a non-resident tuition fee of $100 in addition to the regular matriculation fees charged resident students.

Matriculation Fee for Law Students. Students taking professional work in law are required to pay $12.50 more per quarter than regular students. Students who are residents of Georgia must pay a quarterly fee of $70 and non-resident students are required to pay a non-resident tuition fee of $100 in addition to the $70 charged resident students.

Matriculation Fee for Veterinary Medicine Students. Students taking professional work in veterinary medicine are required to pay $27.50 more per quarter than regular students. Students who are residents of Georgia must pay quarterly a matriculation fee of $85, and non-resident students are required to pay a non-resident tuition fee of $100 in addition to the $85 charged resident students.

Health Service Fee. Each student is required to pay during the registration period at the beginning of each quarter a health service fee of $3.50.

Student Nurses. The University of Georgia basic student nurses will be charged $10 a quarter while they are having their clinical nursing instruction at the hospitals, except in Public Health for which the fee will be $57.50. This fee covers registration and supervision by the University Department of Nursing Education.

Matriculation Fee for Students With Less Than Twelve Quarter Hours. Students who are permitted to register for less than twelve quarter hours of work must pay a matriculation fee of $4.00 for each quarter hour except students in Law whose rate is $5.00 per quarter hour and those in Veterinary Medicine whose rate is $6.00. Basic military and physical education each shall count as 2 hours per quarter in assessing fees. In addition to the quarter hour matriculation rates charged to resident students, non-resident students must pay a non-resident tuition fee of $7.00 for each quarter hour of work taken.

Matriculation Fee for Atlanta Area Teacher Education Service Program. Students taking courses in the Atlanta Area Teacher Education Service Program must pay a matriculation fee of $6.00 for each quarter hour.

DEFINITION OF LEGAL RESIDENCE

To be considered a legal resident of Georgia for the purpose of registering at the University of Georgia, a student must present evidence as follows:

(a) If under 21 years of age, that the supporting parent (or guardian) has been a *bona fide* resident of the State of Georgia for at least one year next preceding the registration date.

In the event that a legal resident of Georgia is appointed as the guardian of a non-resident minor, such minor does not become a resident until the expiration of one year from the date of appointment, and then only upon proper showing that such appointment was not made to avoid the non-resident fee.

(b) If over 21 years of age, that *bona fide* residence in Georgia was established at least one year prior to the registration date. Any period of time during which a person is enrolled as a student in any educational institution in Georgia may not be counted as a part of the year's residence herein required as a prerequisite to registration as a resident student.

Auditor's Fee. Persons desiring to attend courses or lectures without examination or credit may secure an auditor's ticket. Fees for auditors are the same as those for students registered for credit.

Breakage Deposits and Special Fees. There are no general laboratory fees, but there are a few courses offered that require special fees, such as agronomy for cotton grading and field trips; forestry for forestry camp; landscape architecture for field trips; and music for private lessons. The catalogue description of a course indicates the amount of any special fee that may be required of those registering for the course.

In certain laboratory courses requiring the use of expensive equipment, students must pay a breakage deposit fee. This fee will be returned at the end of the year less any deductions for breakage. Students whose breakage has exceeded the deposit must make an additional payment to the Univer-

sity. The catalogue statement regarding a course indicates any breakage deposit fee that may be required.

Armed Services Uniforms, Fees, and Textbooks. Students enrolling in the Army or Air Force ROTC will be furnished uniforms through the University of Georgia at an approximate cost to the student as follows:

Basic Course	$62.50 Plus $2.50 Account Fee
Advanced Course	$87.50 Plus $2.50 Account Fee

At registration, each student enrolling in basic or advanced ROTC will be required to pay the deposit as indicated above. A list of these students will be submitted to the ROTC as authority for the military property custodian to issue prescribed articles of uniform and insignia.

Students formally enrolled in ROTC are authorized a commutation in lieu of uniform which is earned in accordance with the length of time actually enrolled. The uniform allowance for basic course students is $25.00 per student per year not to exceed two years; for advanced course students $100.00 per student for a two year period. These amounts are subject to change by the two departments but were in force for the 1954-55 fiscal year. The amount paid each student will not exceed the value of the articles of uniform purchased through the University of Georgia. The account will be balanced and final settlement will be made by the Treasurer's Office after the close of the fiscal year (during the summer), except for advanced course students completing the course, whose accounts will be closed and balanced during the summer following the end of the second year of the course. Any portion of the commutation in lieu of uniform not expended by the student will be returned by the institution to the Federal Government.

Students are entitled to retain uniforms, furnished, as personal property. The uniforms are identical to those used in the service, and will save the cost of same when entering active duty. There will be no refunds on deposits except where the cost of the uniform is less than the total amount of the deposits, plus commutation allowed by the Federal Government, and then only after the end of the second year basic and the second year advanced, and/or withdrawal for normal reasons.

All text books and manuals required for courses in Military and Air Science and Tactics are furnished free of charge by the U. S. Government; however, students are held responsible for them in cases of loss or undue damage.

TIME AND METHOD OF PAYMENT OF FEES AND CHARGES

Time of Payment. All fees, deposits, and charges for room and board are payable during the registration period at the beginning of each quarter. A student is not officially registered as a student in the University until such fees and charges are paid. Students who do not make payment within the registration period will be required to pay the service charge for late registration.

Method of Payment. All payments should be made to the Treasurer's Office in the Academic Building on the north campus. Fees and charges may be paid in cash or by check in the exact amount of the student's bill. If a check given for a student's bill is not paid on presentation to the bank

on which it is drawn, the student's registration will be cancelled. If the registration is cancelled after the registration period for the quarter has expired, the student may re-register only on payment of the service charge for late registration.

Students are advised to bring their money in the form of express or travelers' checks or money orders and to deposit these in a local bank.

SPECIAL FEES AND CHARGES

Service Charge for Late Registration. A student who fails to register on the days set aside for that purpose will be subject to penalties as follows: For the first day beyond the scheduled dates, $5; and for each succeeding day up to and including the fourth day, $2; or a total of $11.

Special Examination Fee. The University reserves the right to charge a fee of $2 for any special examination that may be given at the request of a student.

Fine for Absences Before and After Holidays. A student who is absent from any class or regular University exercise on the day before or the day after a holiday period and who has no valid excuse for such absence may be required to pay a fine of $2 for each of the days on which an absence occurred.

Transcript Fee. A student who has discharged all financial obligations to the University is entitled to receive on request and without charge one transcript of his academic record. A charge of $1 will be made for each additional transcript.

Diploma Fee. The fee for a diploma is $8 for undergraduate, $10 for masters, and $25 for doctors degree, which fee includes rental of cap and gown. The doctors fee also includes cost of hood. The Certificate of American Studies for Foreign Students fee is $5.

Graduate Record Examination. All graduate students are required to take the Graduate Record Examination before they are admitted to candidacy for a graduate degree. The fee for students taking this examination under the Institutional Plan (scheduled for regularly enrolled students) is $3. For students taking the examination under the Independent Plan (scheduled primarily for undergraduates and others anticipating graduate work at some other institution) the fee is $10.

FEE REFUNDS

Students who formally withdraw from the University within one week following the scheduled registration date are entitled to a refund of 80 percent of the fees paid for that quarter.

Students who formally withdraw within a period of one to two weeks after the scheduled registration date are entitled to 60 percent of the fees paid for that quarter.

Students who formally withdraw during the period between two and three weeks after the scheduled registration date are entitled to a refund of 40 percent of the fees for that quarter.

Students who formally withdraw within a period of three to four weeks after scheduled registration date are entitled to a refund of 20 per cent of the fees paid for that quarter.

Students who withdraw after a period of four weeks has elapsed from the scheduled registration date will be entitled to no refund of any part of the fees paid for that quarter.

Students suspended for disciplinary reasons shall have no right to a refund of any portion of any fees paid.

Breakage deposits less any authorized deductions will be refunded at the end of the academic year or at the close of the quarter following a student's withdrawal from the University.

Information regarding refunds of payment of room and board is set forth under the heading of "Student Housing."

No Refunds of Any Nature Can Be Made Except at the End of a Quarter.

RESERVATION OF RIGHT TO CHANGE FEES

The University reserves the right to make changes in its fees and charges at the beginning of any quarter and without previous notice. This right will be exercised cautiously.

SUMMARY OF EXPENSES

It is estimated that the reasonably necessary annual expenses of a student at the University vary from $750 to $850. This estimate includes University fees and cost of books, military uniform, room, board and laundry; it does not include travel, clothing, and incidental expenses.

Law students, veterinary medicine students, and non-resident students will find the cost somewhat more because of the higher fees required of them.

FINANCIAL AID FOR STUDENTS

LOAN FUNDS

For the assistance of deserving students who have not sufficient means to pay all their college expenses a number of loan funds have been established by friends of the University. A loan to a student in any academic year will not ordinarily exceed the amount of his fees during that year.

Unless otherwise specified, application for loans should be addressed to the office of the Director of Placement and Student Aid, who administers the awarding of loans under the policies of a faculty committee. Applications for loans should be made at least one month before the time the funds will be needed.

In the following alphabetical list the category of students eligible for the loan is indicated.

Lucille Alexander Fund. Juniors and seniors in the School of Home Economics.

Alpha Zeta Fund. Members of the Alpha Zeta Fraternity.

Alumni Association Fund. The College of Agriculture.

Preston S. Arkwright Fund. The College of Agriculture.

R. & L. Arnold Fund. The College of Agriculture.

Atlanta Cotton Oil Company Fund. The College of Agriculture.

Atlanta Journal Fund. The College of Agriculture.

Atlanta Stockyards Fund. The College of Agriculture.

Dupree Barrett Fund. Juniors and seniors in the School of Forestry.

L. H. Beall Fund. The College of Agriculture.

John D. Bolton, Jr. Memorial Fund. Preference to members of Kappa Alpha Fraternity.

Charles H. Brand Fund. The University.

Mary Upshaw Broach Scholarship Fund. Home Economics Students.

Charles McDonald Brown Fund. The University and The Medical College.

Henry W. Brown Fund. The University.

Shepard Bryan Fund. The College of Agriculture.

Bernice F. Bullard Fund. Men and women students of the University.

Asa G. Candler Fund. The College of Agriculture.

Charles H. Chandler Fund. The College of Agriculture.

Chamberlain-Johnson-DuBose Fund. Juniors and seniors in the School of Home Economics.

A. F. Churchill Memorial Fund. Men and women students of the University.

Class of 1926.. The University.

Citizens and Southern National Bank Fund. The College of Agriculture.

Obadiah Lewis Cloud Fund. The University.

Mrs. J. H. Cloudman Fund. The College of Agriculture.

Lucy Cobb Institute Fund. Women students who have been residents of Georgia for at least twelve months.

E. T. Comer Fund. The University, preference to be given students from rural sections.

D. A. R.-Elijah Clarke Chapter Fund. Women students of the University.

D. A. R.-Lila Napier Jelks Fund (Hawkinsville Chapter). Junior and seniors of the University whose homes are in Pulaski County.

D. A. R. Memorial Fund. The University.

D. A. R.-Richmond Walton McCurry Fund. Women students of the University.

D. A. R.-May E. Talmadge Fund. Men and women students of the University.

The Dawson Fund. The College of Agriculture and the School of Home Economics.

W. S. Denmark Fund. Men of the University.

Eugene and Harry Dodd Fund. The University.

Druid Hills Methodist Memorial Educational Fund. The University.

J. C. Dukes Fund. Students from Terrell and Coweta Counties in the College of Agriculture, School of Home Economics, and College of Business Administration.

Epsilon Sigma Phi Fund (Alpha Beta Chapter). The College of Agriculture.

Exchange Club (Atlanta). The College of Agriculture.

W. W. Findley Fund. The College of Agriculture.

Lucy Hurt Fisher Fund. Men and women in the College of Agriculture.

Chas. W. Ford Fund. The College of Agriculture.

Forestry Loan Fund. The School of Forestry.

Four-H Club Fund. The College of Agriculture.

Freshman Y Commission Fund. Freshman women of the University.

Georgia-A. & W. P. Railroad Fund. The College of Agriculture.

Georgia Bankers' Fund. Georgia residents who are students in the Science of Agriculture, Veterinary Medicine, Domestic Science, and the related arts.

Girls Canning Club Fund. Juniors and seniors in the School of Home Economics.

James C. Harris Fund. Men and women students in the University.

Frank Hawkins Fund. The College of Agriculture.

A. L. Hull Memorial Fund. The University.

J. H. Hunt Fund. Men and women students of the University, preferably from North Georgia.

Mrs. Graham Johnson Fund. The College of Agriculture.

Bess D. Jones Fund. The College of Agriculture.

Junior League, Atlanta Fund. Juniors and seniors in the School of Home Economics.

J. B. Keough Fund. The College of Agriculture.

Clyde L., Jr., and John King Loan Fund. Men students of the University.

Kirkwood P.-T. A. Fund. The College of Agriculture.

Landscape Architecture Student Loan Fund. Students in Landscape Architecture.

Francis Eugene Lanier Fund. Juniors and seniors in the School of Home Economics.

Francis A. Lipscomb Fund. The University.

Arthur Lucas Fund. The College of Agriculture.

Joseph Henry Lumpkin Fund. The University.

Mr. and Mrs. T. O. Marshall Fund. Men and women students of the University.

R. H. Martin Fund. The College of Agriculture.

Moina Michael Fund. (Given by the American Legion Auxiliary.) Sons and daughters or brothers and sisters of World War Veterans.

Thos. E. Mitchell Funds. Men and women students of the University.

Moon Loan Fund. Men and women students of the University.

R. C. Neely Fund. The College of Agriculture.

C. T. Nunnally Fund. The College of Agriculture.

J. Carroll Payne Fund. Juniors and seniors in the School of Home Economics.

Phi Delta Phi Fund. Members of that fraternity.

Benjamin Z. Phillips Fund. Members of the second-year law class.

Albon W. Reed Fund. The College of Agriculture.

Bertha Rich Fund. Juniors and seniors in the School of Home Economics.

E. Rivers Fund. The College of Agriculture.

Jas. D. Robinson Fund. The College of Agriculture.

S. D. V. Fraternity Fund. The College of Agriculture.

John D. Simmons Fund. The College of Agriculture.

Hoke Smith Fund. The College of Agriculture.

Students Loan Fund. Men and women students of the University.

Mark Sullivan Fund. Men and women students of the University

Berryman Thompson Fund. Men and women from Coweta County.

Meldrim Thompson Fund. Senior Law students of the University.

Max Thurmond Fund. School of Forestry.

Frances C. Tucker Fund. Women in the University.

Leila Bates Tye Fund. Home Economics 4-H girls.

Louis Wellhouse Memorial Fund. Men and women students of the University.

C. P. Whitehead Fund. The College of Agriculture.

Cecil Wilcox Loan Fund. Men students of the University.

Robert W. Woodruff Fund. The College of Agriculture.

Ida A. Young Fund. Women students of the University.

FOUNDATION LOAN FUNDS

A number of Educational Loan Foundations outside the University lend money to deserving students on terms similar to those of the regular University funds. Students may write these Foundations directly or be recommended by the Director of Student Aid of the University. Largest among these foundations are:

Lewis H. Beck Foundation

Mrs. Miriam W. Jenkins, Secretary, 1421 Candler Building, Atlanta, Georgia.

Knights Templar Educational Foundation

Mr. Thomas C. Law, Chairman, P. O. Box 1558, Atlanta, Georgia

Pickett and Hatcher Educational Foundation

Mr. Guy E. Snavely, Jr., Executive Secretary, First National Bank Building, Columbus, Georgia.

Rotary Educational Foundation of Atlanta

Mr. Kendall Weisiger, Chairman, 603 Forsyth Building, Atlanta, Georgia.

STUDENT AID FOUNDATION OF THE GEORGIA FEDERATION OF WOMEN'S CLUBS

Mrs. C. T. Pottinger, Executive Secretary, 2475 Rivers Road, N. W., Atlanta, Georgia.

JOHN T. HALL STUDENT LOAN FUND

Mr. Ray Wilhoit, Trust Company of Georgia, Atlanta, Georgia

Many civic organizations and clubs throughout the cities of Georgia maintain loan funds for local students. Students should make inquiry of these clubs.

STUDENT EMPLOYMENT

Besides the scholarships, honors, awards, and prizes open to University students, the office of the Dean of Students maintains a Bureau of Student Employment in its Office of Placement and Student Aid. One aim of this buereau is to assist students who find it necessary or desirable to earn a part of their college expenses. Work opportunities occur in the libraries, dining halls, dormitories, and in a few academic departments. A few jobs, formerly called student activity scholarships, are given to talented students who are capable of serving the University as leaders in various extra-curricular activities. Some of the activities in which such students may engage are the University Band, Orchestra, and Debating Teams.

It is very difficult to secure a job for a student before he arrives in Athens. Employers usually insist on personal interviews. A student should come to the University prepared to pay all his expenses for at least the first quarter of his residence.

Each year the bureau assists many students in finding jobs. A student should not expect, however, to be able to earn enough to pay all expenses. The regular academic program of the University provides a full load of work for the average student. A student who does any considerable amount of outside work will find it necessary to carry a reduced load of academic work and to spend a correspondingly longer time at the University.

Students interested in part-time employment should write to the Director of Placement and Student Aid.

Additional financial aid for graduate students will be found in the General Catalogue under Graduate School.

PLACEMENT OF GRADUATES

The Office of Placement and Student Aid undertakes to assist those who have been enrolled as students in securing business and professional positions and teacher appointments. The office is in constant touch with a large number of alumni and business organizations and school systems that are potential employers of University students.

Any person, whether undergraduate or an alumnus, is eligible to register for placement assistance. All seniors and graduate students are urged to have a personal interview with the Director of Placement and Student Aid.

In addition to the over-all campus placement service this office works very closely with the deans of the professional schools in aiding with the placement of their graduates.

The Office of Placement also maintains a Camp Placement Bureau which assists students and graduates to locate jobs as counselors and assistants in summer camps. This service is particularly attractive to teachers whose schools do not have a summer session. Students and graduates should get in touch with the Camp Placement Bureau if they are interested in camp work for the next summer. For placement information write to the Director of Placement and Student Aid.

THE GEORGIA CENTER FOR CONTINUING EDUCATION

HISTORY

A grant of $2,144,000 from the W. K. Kellogg Foundation of Battle Creek, Michigan in November 1953, supplemented by funds set aside from state monies by Governor Herman Talmadge has made possible the establishment of the Georgia Center for Continuing Education.

The Center building which immediately will be built on the University campus will house staff offices, guest accommodations, conference rooms, and a modern communications center for radio, television, films and recordings. The construction schedule plans for use of the building by Fall, 1956.

These facilities will make it possible for the University to make its total resources available not only to the classroom and conference student but to total communities, to family units and to the individual at all times.

This is a new program and will encompass all of the activities that have been carried on by the Division of General Extension, which was established as the Division of Extension Teaching in the University in 1922. Prior to that time the extension activities of the University had been incidental and sporadic. Five years of growth and expansion resulted in the establishment of a Division of University Extension. Special instructors were added to the staff and a Director was placed in charge. In 1932 the Division of General Extension of the University System of Georgia was organized and the University office became a part of the system-wide division with offices in Atlanta. In 1947 the Board of Regent transferred the administration of the Division to the University of Georgia with offices on the University campus. Now, in 1955, the Georgia Center for Continuing Education has become the service division of the University System except in the fields of Agriculture and Engineering.

Credit and non-credit patterns are followed in planning adult educational programs. Where the study program follows the pattern of classroom and laboratory sessions on the campus, credit may be earned on the undergraduate level.

Veterans who qualify under Public Laws 346, 16, 550, or 894 are eligible to participate in the Georgia Center activities on presentation of valid certificates of eligibility.

INSTRUCTIONAL SERVICES

Eight University Centers are now in operation, in Athens, Camp Gordon, Columbus, Fort Benning, Gainesville, Marietta, Rome and Waycross. Full time University Representatives are in charge of both credit and non-credit programs in these communities. Academic classes meet on regular Univer-

sity schedules. Entrance requirements and course content are the same as on campus. Non-credit courses, lectures, discussion groups and conferences are planned by the Center staff with local interest groups according to the requirements of the community.

Extension Classes in communities outside commuting distance of the Centers are developed wherever fifteen or more persons request the service and whenever qualified faculty can be made available.

Home Study provides college-level correspondence study and supervised high school study for those who find it necessary to do portions of their programs by mail. Correspondence courses are developed and taught by regular members of the faculties of the four year institutions of the University System. They are comparable in content to equivalent courses given on the campus. The supervised high school study is a cooperative program of service to the local high schools, available for the first time this year. Adults and homebound students who need special work in high school subjects are registered on the recommendation of the local principal.

Reading You'll Like has been developed for the Epsilon Sigma Omicron groups of the Georgia Federation of Woman's Clubs, setting up a guided reading program. Other groups or individuals are eligible to join the reading program.

The Athens Unit of *Recordings for the Blind, Inc.*, is prepared to record any of the Home Study program for the blind students on request.

Conferences and Short Courses are scheduled on the University campus, at System colleges, and University Centers to meet the growing need for intensive educational programs. Members of the faculty and professional and business leaders have joined resources to provide practical and theoretical knowledge in the solution of today's problems. Public officials, lawyers, teachers, foresters, insurance men, ministers and many other professional groups as well as such organizations as the Georgia Federation of Women's Clubs and the Parent-Teacher Association now schedule annual educational meetings with University personnel throughout the year. The staff of the Georgia Center is prepared to advise on technical arrangements, professional personnel and other matters of conference planning.

COMMUNITY SERVICES

The Division of Community Services seeks to bring to the communities of Georgia those services which they need for the solution of their problems. These services range from individual counselling on local problems to county-wide and regional institutes and conferences for community needs. Materials are available in many fields including the Drama Loan Library, discussion group study series, national and international affairs such as "Our World Today" and "World Affairs Are Your Affairs," United Nations Loan Kits, art exhibits and program suggestions for clubs, associations and other community groups.

COMMUNICATION SERVICES

The Division pioneered in the field of audio-visual materials and today has one of the best educational film libraries in the Southeast. As a service to the units of the University System, to other schools and colleges, county

agents, home demonstration agents, club and church groups, the Film Library offers approximately 2,000 titles for distribution. A nominal service or rental charge is made to film users. The library is constantly adding films suitable for use by college groups or adult groups in all communities. A photographic laboratory is maintained to provide instructional materials, news and public relations releases, and illustrations for research projects. These services will ultimately become a part of the activities of the Center in mass communication. The service will be extended to include also the distribution of recorded tapes and kinescopes of television programs produced by the Center. Television, radio, and motion picture production, with audio-visual services already in operation, will provide complete materials and programs of graphic, projected, and broadcast nature.

OTHER UNIVERSITY ACTIVITIES

SHORT COURSES, CONFERENCES, AND INSTITUTES

The various colleges and schools of the University conduct short courses, conferences, and institutes for the purpose of assisting various groups of citizens to keep informed about the latest developments in their respective fields of interest. Some of these meetings are sponsored by business, professional, and social organizations. Members of the University faculty and outside specialists offer instruction in short courses and conduct lectures, demonstrations and conferences. Public announcement is made from time to time regarding special programs of this type that will be held on the University Campus.

Among the conferences sponsored by the College of Education are the Conference of Superintendents and School Administrators and the Rural Life Conference. For several years the Georgia Congress of Parents and Teachers has held a Parent-Teacher Institute at the University in June.

For many years the School of Journalism and the Georgia Press Association have conducted during the month of February a Press Institute for the editors of the papers of the state.

The College of Agriculture conducts Short Courses for the citizens of Georgia as a definite part of its instructional program. These courses are normally given during the winter months. They deal with any subject-matter related to agriculture in which there is a popular interest. Announcements will be mailed to anyone on request.

Other short meetings held at the University are the Woman's Club Institute, the Garden Club Institute, and the conference for those engaged in insurance work.

The University is glad to cooperate with any organization or group in planning a conference or institute that will fill a worthwhile need. Communications regarding such matters should be addressed to The Georgia Center for Continuing Education, University of Georgia.

THE UNIVERSITY OF GEORGIA PRESS

The University of Georgia Press was established in 1939. One of its purposes is to advance learning and disseminate knowledge by the publication of books that in their content and presentation contribute to a better under-

standing of human affairs. Another purpose is to encourage creative literary and scientific work by providing facilities for the publication of the results of such work. The University Press is glad to consider for publication not only the work of University professors but the productions of scholars throughout the nation. A Board of Directors appointed by the Board of Regents and an Advisory Faculty Committee appointed by the President of the University control the publishing policies and supervise the work of the University Press.

Mimeographing

Another service offered by the Press is mimeographing, available to departments and organizations of the University.

For information regarding the Publications or work of the University Press, communications should be addressed to Director of the University of Georgia Press, Athens, Georgia. A list of the publications of the Press will be sent on request.

ATHLETIC ASSOCIATION

The University of Georgia conducts a complete program of intercollegiate athletics. The University is a member of the Southeastern Athletic Conference and abides strictly by the regulations and policies of the conference. Although the University Faculty has general control of internal policies of the University relating to all phases of intercollegiate athletics, the University of Georgia Athletic Association has been created to facilitate the handling of the business and financial side of the intercollegiate program. The President of the University is ex-officio chairman of the Board of Directors and a majority of the members of the Board are faculty members. The other members of the Board are alumni and friends of the University.

The funds of the Athletic Association are subject to the control of the Board of Regents.

ALUMNI SOCIETY

The University of Georgia Alumni Society was organized in 1834 and has been continuously active since that time. Its purpose is to keep former students of the University interested in and in touch with one another and also to encourage former students to manifest a continued interest in the University.

All persons who at any time were matriculated as regular students in the University at Athens are members of the Society. A member who contributes annually to the Alumni Fund has the privilege of voting on all business matters, is eligible for election as an officer in the Society, and receives a subscription to the *Alumni Record*, a monthly magazine about alumni and campus activities. Students are invited to visit the Alumni Office, to confer with the secretary, and to learn about the general work of the Society.

The government of the Society is in the hands of a Board of Managers elected by the active members of the Society. Officers of the Society are

elected annually. "Alumni Day," the time for class reunions and other alumni celebrations, is held each year at Commencement.

The business offices of the Alumni Society are on the second floor of the Academic Building, and are under the direction of William M. Crane, Jr., Alumni Secretary.

THE UNIVERSITY OF GEORGIA FOUNDATION

In 1937 the Alumni Society through its officers sponsored the organization of the University of Georgia Foundation. The Foundation is a corporation under the laws of the State of Georgia and has a self-perpetuating Board of Trustees. The Board consists of thirty-five alumni, elected from various sections of the state.

The purposes of the University Foundation are to develop the facilities of the University and to strengthen its financial resources by encouraging gifts for the benefit of the University and also to receive, hold, and administer such gifts in accordance with the instructions of the donors. The Board of Trustees of the University Foundation is particularly interested in receiving donations and bequests which will enable it to make financial provision for University needs other than those that are adequately met by state appropriations.

The officers of the University of Georgia Foundation at the present time are Dr. Phinizy Calhoun, President; Mr. Hughes Spalding, Vice President; Mr. Francis M. Bird, Secretary; and Mr. Cam D. Dorsey, Treasurer. Information regarding the Foundation may be obtained from Francis M. Bird, Secretary, Haas-Howell Building, Atlanta, or from the President of the University.

THE M. G. MICHAEL AWARD FOR RESEARCH BY FACULTY MEMBERS OF THE COLLEGE OF ARTS AND SCIENCES

This award for research by some faculty member of the College of Arts and Sciences was created in 1944 by Leroy and David Michael in honor of their father, Moses G. Michael, a graduate of the class of 1878. The fund is administered by the University of Georgia Foundation. The annual award amounts to $500.

THE ARTHUR LUCAS MEMORIAL FUND

Established in 1946 by Mrs. Margaret C. Lucas, Atlanta, as a memorial to her late husband, this fund is to encourage research and study in the recording, projecting, and transmission of images, pictures, and sound by scientific means. This fund, the corpus of which is now $15,000.00, is administered by the University of Georgia Foundation.

THE GRADUATE SCHOOL

GEORGE HUGH BOYD, A.B., M.S., Sc.D., *Dean*

HISTORICAL

Although the first statutes of the University contemplated resident graduate students, it was the custom here (as it was in many other colleges and universities) to confer the degree of Master of Arts upon any Bachelor of Arts of good character who, three years or more after graduation, made application for the degree and paid a required fee. This practice continued to be followed until 1868, at which time a course of study was laid down which candidates for the master's degree were expected to pursue. From 1869 until 1890 the regulations required the candidate to complete successfully the most advanced course in each of the academic (non-professional) schools. In 1892 the requirements for the degree became substantially the same as they are now, though slight modifications have been made from time to time.

Graduate offerings by the University continued to be limited to the master's degree until 1936. Since that time the offering of programs leading to the degree of Doctor of Philosophy in a few fields has been authorized.

Prior to 1910 the graduate work of the University was supervised by the faculty, chiefly through its Committee on Graduate Courses. In 1910 the Board of Trustees set the work apart by the creation of the Graduate School and the appointment of its first dean. In 1940 a Graduate Faculty was established with authority to determine the policies and the standards that are to be applied to graduate work in the University.

GENERAL ADMISSION PROCEDURE

A prospective applicant for admission to the Graduate School should secure from the office of the Dean of the Graduate School blanks to be used in applying for general admission to the University of Georgia and specific admission to the Graduate School. These applications should be completed and returned to this office at least six weeks before the opening of the quarter in which the student desires to register. *Two official transcripts* of all courses taken by the applicant in college or university must be sent directly to the Dean of the Graduate School from the Registrar of the institution concerned. These transcripts provide information necessary to the dean and the major department and *must be in their hands before the admission of the student may become final.*

Graduates of institutions accredited by the appropriate regional accrediting agencies may be admitted to the Graduate School upon the presentation of a certificate of graduation and an acceptable official transcript of all courses taken. The University may also require any tests or special work deemed advisable by the faculty in the interest of quality of work in the Graduate School. Students whose credentials justify their admission may become candidates for the appropriate degrees upon the satisfactory com-

pletion of preliminary requirements, or they may take graduate courses without becoming candidates for degrees.

Graduates of non-accredited colleges may be admitted to the University as *unclassified post-graduates* and may later be admitted to full graduate standing on a basis of examinations and course work designed to indicate their qualification for regular graduate study.

Only those students who are formally admitted to the Graduate School will be eligible to register in the Graduate School or take graduate courses. Graduates who have been denied admission to the Graduate School, if registered in the University, will be registered through the undergraduate school or college of their choice and classified as *irregular students*. No irregular student will be permitted to register for graduate courses, and no work taken by a student while under this classification may be counted for credit toward any graduate degree.

Should the work of the irregular student prove to be of such quality as to justify his admission to graduate status, reconsideration may be given to his application for admission at any time after he has completed fifteen quarter-hours of approved course work and has taken the Graduate Record Examination.

By action of the Board of Regents of the University System of Georgia, any resident of Georgia applying for admission to an institution of the University System of Georgia shall be required to submit a certificate in his favor signed by two citizens of Georgia, alumni of the institution that he desires to attend. This certificate shall testify that each of such alumni is personally acquainted with the applicant, that he is of good moral character, that he bears a good reputation in the community in which he resides, and, that in the opinion of such alumnus, he is a fit and suitable person for admission to the institution and able to pursue successfully the courses of study offered by the institution he desires to attend.

Each such applicant shall also submit a certificate from the Ordinary or Clerk of the Superior Court of the county in which the applicant resides that such applicant is a *bona fide* resident of such county, is of good moral character and bears a good reputation in the community in which he resides.

Any non-resident of the State applying for admission to an institution of the University System of Georgia shall submit a similar certificate from two alumni of the institution that he desires to attend, or from two reputable citizens of the community in which the applicant resides.

Every such applicant shall also submit a certificate from a judge of a court of record of the county, parish or other political sub-division of the State in which he resides that he is a *bona fide* resident of such county, parish or other political sub-division and a person of good moral character and bears a good reputation in the community in which he resides.

The necessary form for the above certificates is a part of the application form for general admission to the University.

REGISTRATION

After a student has been granted admission to the Graduate School, his next step will be that of registration for his first quarter's work. The University Calendar is printed on page three of this General Catalogue, and this calendar indicates the registration dates for each quarter. The student will begin the process of registration by securing from the Office of the Registrar permission to register. He will then seek the advice of an authorized member of the staff of his major department in planning his work for the quarter and follow the usual procedure in registration. His registration must be approved by the Dean of the Graduate School.

COURSES

Courses numbered 800 or above are intended primarily for Advanced General students, and they are open to graduate students alone. At least one third of the program of the candidate for the Master of Arts or Master of Science degree must be in these courses. Courses numbered 700 to 799, though open to qualified undergraduates, are intended primarily for Advanced Professional students; and courses numbered 600 to 699 are senior division coruses that are open to Advanced General and Advanced Professional students.

The maximum amount of graduate credit that may be earned by the student in any one quarter is 15 hours. Students holding Graduate Assistantships or engaging in other part-time employment will not attempt to carry a full load.

DEGREES

The Graduate School recognizes the fact that it exists for a two-fold purpose. In the first place, it seeks to promote scholarship that is thorough, creative, independent in character and fundamental in its approach; it emphasizes such scholarship without specific concern with its applications. In the second place, it seeks to provide advanced training of a scholarly and effective kind in the professional and vocational fields represented in the program of the University.

In keeping with the two purposes mentioned above, the work of the Graduate School is organized under two divisions:—A Division of Advanced General Study,* and a Division of Advanced Professional Study. The degrees awarded upon the recommendation of the Graduate Faculty are likewise classified as Advanced General degrees (Master of Arts, Master of Science, and Doctor of Philosophy) and Advanced Professional degrees (Master of Business Administration, Master of Chemistry, Master of Education, Master of Forestry, Master of Home Economics, Master of Landscape Architecture, Master of Laws, Master of Art Education, Master of Music Education, Master of Fine Arts, and Doctor of Education).

The degrees of Master of Arts, Master of Science, and Doctor of Philosophy may be taken in any field of study represented in the University, pro-

*The use of the term "Advanced General" is based not upon the nature of the subject matter involved, but upon the applicability of these degrees on a University-wide basis. "Advanced Professional" programs and degrees belong more specifically to individual schools and colleges.

vided the nature of the subject matter involved gives appropriateness to the degree concerned and provided the adequacy of staff and facilities justifies the offering of the degree.

A. ADVANCED GENERAL DEGREES

Master of Arts. The degree of Master of Arts will be conferred upon candidates who have met the prescribed requirements for this degree with major study in one of the following fields:—Business Administration, Economics, Education, Fine Arts, Geography, History, Journalism, Languages and Literature, Law, Mathematics, Philosophy, Political Science, and Sociology.

Master of Science. The degree of Master of Science will be conferred upon candidates who have met the prescribed requirements for this degree with major study in one of the following fields:—Agriculture, Agricultural Engineering, Biology, Bacteriology, Botany, Chemistry, Forestry, Home Economics, Pharmacy, Physics and Psychology.

Doctor of Philosophy. The University has established this degree for the purpose of providing properly qualified students with the opportunity to pursue research and other scholarly activity beyond the point that is possible in programs for the master's degree. At present, opportunity for such advanced graduate work is provided in English, history, mathematics, plant sciences and zoology. Other fields will be added from time to time as conditions seem to justify it. An applicant who is looking forward to work at this level should communicate with the Dean of the Graduate School in advance with reference to the possibility of pursuing work in the field of his choice.

This degree will not be granted upon the completion of any definite amount of work prescribed in advance. It will be granted in recognition of proficiency in research, breadth and soundness of scholarship, and thorough acquaintance with a specific field of knowledge. Evidence of such attainment must be provided through the presentation of an acceptable thesis based upon independent research and through the satisfactory passing of such written and oral examinations as may be prescribed.

REQUIREMENTS—MASTER OF ARTS AND MASTER OF SCIENCE

1. Admission. In order for a student to be given unqualified admission to the Advanced General Division (1) he must have completed the requirements for the bachelor's degree in a college accredited by the proper regional accrediting association, (2) he must rank in the upper half of his class in his undergraduate college work, (3) he must have completed the equivalent of our undergraduate major in the general field in which he proposes to do his graduate major, (4) he must have completed at least ninety quarter-hours of work (exclusive of his major) appropriately distributed in courses devoted to basic factual knowledge in the fields of the arts, English language and literature, foreign languages, mathematics, the natural sciences, and the social sciences, and (5) his admission must be recommended by the members of the staff of his prospective major department and approved by the Dean of the Graduate School.

2. Language Requirements. All candidates for graduate degrees are expected to show correctness and good taste in their use of English, both written and oral. Upon the option of the students' major department, a reading knowledge of French or German may be required of candidates for Advanced General degrees. (The College of Arts and Sciences requires a reading knowledge of a modern foreign language of students majoring in any of its departments.) Another modern foreign language may be substituted for French or German upon certification by the major professor that the language proposed is more appropriate to the student's program.

3. Program. All prerequisites having been met, the requirements for a Master of Arts or Master of Science degree in any field are the satisfactory completion of a program of study which consists of courses carrying a minimum credit value of 40 quarter-hours plus the writing of an acceptable thesis. The courses taken must form a logical whole. The program of study must not include any course that has formed a part of the student's program of study for any other degree previously taken. The program must be approved in advance by the major professor and the Dean of the Graduate School.

4. Graduate Record Examination. This examination is required of all students seeking Advanced General or Advanced Professional degrees. It should be taken during the student's first quarter of residence. The dates on which the examination may be taken are indicated in the Graduate School Calendar.

5. Admission to Candidacy. Admission to the Advanced General Division of the Graduate School does not imply that the work taken by the student must be credited toward a degree. No commitment in this matter is made until the student is accepted as a candidate for a degree. Admission to candidacy for the Master of Arts or Master of Science degree in any field is based upon the following requirements:

a. Approval by the student's major professor and the Dean of the Graduate School of the undergraduate training of the student, as shown by official transcripts of his college work;

b. Certification by the student's major professor that
   (1) all prerequisite courses have been completed,
   (2) the Graduate Record Examination has been taken and all other requisite preliminary examinations have been passed;
   (3) foreign language requirements, if specified, have been met, and
   (4) the student has demonstrated his ability to do advanced work of acceptable character in the field of his choice;

c. The presentation of an outline of his program of study and a plan of work proposed as a basis for his thesis which have the approval of his major professor and the Dean of the Graduate School.

Application for admission to candidacy for a master's degree must be filed with the Dean of the Graduate School before the first day of classes of the student's final quarter of residence.

6. Required Standing. An average of B+ must be maintained on the program of study used to satisfy degree requirements, and no grade below C will be accepted.

7. Examinations. In addition to all examinations required for admission to candidacy and all examinations on the courses taken, the candidate must pass an oral examination covering his course work and thesis. This examination will be conducted by a committee appointed by the Dean of the Graduate School, but it will be open to any member of the faculty who may desire to attend.

8. Residence. The minimum residence requirement for a master's degree is one academic year, or three full quarters.

9. Time Limit. All work credited toward the master's degree must be completed within six years.

10. Acceptance of Graduate Credit by Transfer. Credit may be allowed for work done in a graduate school of good standing when proper credentials have been presented. Credentials should show that the student was of regular graduate standing in the institution concerned when the work was taken. Any transfer of credit must be recommended by the student's major professor and approved by the Dean of the Graduate School. Such transfer of credit cannot exceed ten quarter-hours, and it cannot reduce the residence requirement to less than thirty weeks.

11. Extension and Correspondence. Work done in extension or by correspondence will not be credited toward the master's degree.

12. Application for Graduation. At the beginning of the quarter in which the candidate for a master's degree expects to be granted the degree he must file with the Dean of the Graduate School an application for graduation. The application must be accompanied by a receipt showing that the candidate has paid his diploma fee of $10.00.

13. Thesis. A thesis is required for Master of Arts and Master of Science degrees. It must be based upon primary source materials relating to some problem within the field of the major. It must show that the student has exercised independence of judgment and correctness and good taste in the use of English. Due acknowledgment of the work of others must be made, and an accurate bibliography of all literature used must be included. The research of the student and the preparation of his thesis must be under the direction of a member of the Graduate Faculty who will be designated as his major professor. This person is also responsible for the planning of his program of study.

In each department the thesis carries the number 930 and it may carry from 5 to 50 quarter-hours of credit, depending upon the amount of work devoted to it by the student. This credit must be in addition to the regular course credit requirement of forty (40) hours.

The master's thesis must be approved by the major professor and placed in the hands of the Dean of the Graduate School for a reading committee at least three weeks before the date of graduation. Two bound copies must be deposited with the University Library and one bound copy with the student's major department before the degree is granted. These copies must contain the written approval of the major professor, the chairman of the final reading committee and the Dean of the Graduate School.

14. Attendance Upon Graduation Exercises. A candidate for a degree

must attend the graduation exercises at which his degree is to be conferred, unless he is excused in writing by the Secretary of the Faculty.

REQUIREMENTS—DOCTOR OF PHILOSOPHY

1. Admission. A student will be permitted to register for advanced graduate courses or undertake research, provided the Graduate Faculty is satisfied that he is a person of proper attainment and promise and provided the desired courses can be adequately given and the research adequately supported and directed. No course taken or other work done will be recognized as applying toward the Doctor of Philosophy degree until the applicant has been formally admitted to candidacy for that degree.

2. Advisory Committee. When a student is admitted as a prospective candidate for the Doctor of Philosophy degree, the Dean of the Graduate School will appoint a committee of three to act as his advisers for the period of his study. The members of this committee will assist him in outlining his program and in choosing a subject for his dissertation, and they will advise him in all other matters connected with his program of study and research. The chairman of this committee will be his major professor.

3. Residence. The granting of this degree presupposes a minimum of three full years of study beyond the bachelor's degree, and it cannot be secured through summer work alone. At least three consecutive quarters must be spent in resident study on this campus. If the student holds a part-time assistantship or has other part-time duties, the residence requirement will be increased to provide the equivalent of three quarters of full-time study in residence.

4. Program of Study. The program of study to be followed by the student should be submitted during the first year of his work as a prospective candidate for the Ph.D. degree. It must constitute a logical whole. All requirements for the degree, except the thesis and the final oral examination, must be completed within a period of six years. This time requirement dates from the admission of the student as a prospective candidate for the Ph.D. degree.

5. Preliminary Examination. The satisfactory passing of formal preliminary written and oral examinations is required of the student *before admission to candidacy.* These examinations are given by a committee appointed by the Dean of the Graduate School, and the oral examination is open to members of the faculty generally.

6. Foreign Languages. A reading knowledge of two modern foreign languages is required of each candidate for the Doctor of Philosophy degree. French and German are the recommended languages, but any modern foreign language may be substituted for one of these where it can be shown to have greater pertinence to the student's program of study and interests. Such a substitution must be recommended by the student's major professor and approved by the Advanced General Committee and the Dean of the Graduate School.

7. Admission to Candidacy. A student may be admitted to candidacy for the degree of Doctor of Philosophy upon (1) approval by the Graduate school of his background training as represented by official transcripts and

other evidence; (2) certification by the student's advisory committee that all prerequisite and supporting courses for his program have been completed, all required preliminary examinations have been passed, foreign language requirements have been met, and the student has demonstrated scholarship of high character, independence of thought and ability in productive work; and (3) the presentation of a program of study and research which has the approval of his advisory committee, the head of his major department and the Dean of the Graduate School. Admission to candidacy must be upon formal application filed with the Dean of the Graduate School not later than one academic year before the proposed date of graduation.

No member of the faculty of the University of Georgia above the rank of instructor may become a candidate for a doctor's degree at the University.

8. Application for Graduation. At the beginning of the quarter in which the candidate expects to be granted the degree, he must file with the Dean of the Graduate School an application for graduation. The application must be accompanied by a receipt showing that the candidate has paid his diploma fee of $25.00.

9. Dissertation. Each candidate for the doctorate must present a dissertation, or thesis, on some subject connected with his major field of study. The dissertation must represent originality in research, independent thinking, scholarly ability, and technical mastery of some field. Its conclusions must be logical, its literary form must be acceptable, and its contribution to knowledge should merit publication.

When the dissertation has been read and approved by the student's major professor and the members of his advisory committee, it may be submitted to the Dean of the Graduate School with a request that a reading committee be set up to represent the Graduate Faculty in passing upon its acceptability. For this purpose three typewritten copies of the completed thesis must be submitted, and this must be done at least four weeks before the proposed date of graduation. When the dissertation has been finally approved and bound, two copies must be deposited with the University Library and one with the major department. Each copy must carry a certificate of approval signed by the major professor, the chairman of the reading committee and the Dean of the Graduate School.

Before the degree will be awarded, the student must file with the Dean of the Graduate School three copies of an acceptable abstract of the dissertation not exceeding 1500 words. At the same time, he must file a receipt showing that he has deposited with the Treasurer of the University the amount of $50 to cover the cost of publishing the abstract. Five hundred copies of the abstract will be printed for distribution by the University Library and the major department. When the dissertation is published two copies of it should be filed with the University Library.

10. Final Examination. When the candidate's dissertation has been approved and all other requirements of his program have been met, his major professor may recommend to the Dean of the Graduate School that he be admitted to his final oral examination. This examination will be based upon his dissertation and upon the general fields of his program of study. The

final examining committee will consist of such persons as may be appointed to it by the Dean of the Graduate School. All final oral examinations will be open to any member of the faculty who may desire to attend.

B. ADVANCED PROFESSIONAL DEGREES

Master of Business Administration. The minimum requirement for this degree is a program of sixty quarter-hours of approved course work with a minimum residence of four quarters. Any approved baccalaureate degree may be accepted as the prerequisite background for the program. A student who holds the equivalent of the Bachelor of Business Administration degree may be able to qualify by meeting the minimum requirements. Others will be required to complete from five to forty hours of additional work in business or economics courses, depending upon the nature of the applicant's previous training.

Candidates for this degree must complete for credit a minimum of fifteen quarter hours in courses numbered 800. At least forty-five hours of the student's program must be in the fields of business administration and economics.

Master of Chemistry. Prerequisite degree: Bachelor of Science in Chemistry or its approximate equivalent. For students who hold assistantships, this degree will require a minimum of two years of graduate work, the second year being devoted in large part to research.

A student will be admitted to candidacy for this degree only after he has shown a reading knowledge of both French and German and after he has passed preliminary written, and possibly oral examinations given by the Department of Chemistry. These examinations cover in a general way the divisions of inorganic, organic, analytical and physical chemistry. The written examination on these four fields will constitute the student's final written examination. Any student who fails to pass the examination on two of these divisions or who fails to pass any re-examination will be requested to withdraw his application for admission to candidacy for this degree. The final oral examination is given after the thesis has been approved. It is primarily a defense of the thesis.

The degree of Master of Chemistry is for those students who intend to follow chemistry as a profession, especially for those who expect to continue their studies toward the doctorate in chemistry. It, therefore, differs from the degree of Master of Science with a major in chemistry by being more professional in character.

Master of Education. This degree is designed for the students whose vocational objectives do not call for training in research but require a background of professional training. A student who contemplates becoming a candidate for this degree should seek the advice of the Chairman of the Division of Graduate Studies of the College of Education in determining the suitability of this degree program to his educational purposes.

The minimum requirement for the degree of Master of Education is an approved program of eleven courses (fifty-five quarter-hours) and residence for a period of thirty-six weeks. At least three of the courses in the student's program must be in fields other than Education. Candidates for this

degree must complete for credit the two following courses:—Education 826, *Methods of Applied Research in Education;* and Education 921, *Laboratory in Applied Education.* There is no thesis requirement for this degree.

Master of Art Education. Prerequisite degree: An approved baccalaureate degree. The minimum requirement for this degree is an approved program of ten courses (fifty quarter-hours) in Art, Education, and Art Education combined, and Art Education 921, *Laboratory in Applied Art Education.* A minimum of four quarters of resident study is required.

Master of Music Education. Prerequisite degree: An approved baccalaureate degree. The minimum requirement for the Master of Music Education degree is an approved program of study consisting of fifty quarter-hours of course work in Music, Music Education and Education combined, and five quarter-hours in applied Problems in Music. A minimum of four quarters of residence will be required. A general musicianship examination must be passed during the final quarter of work.

Master of Fine Arts. The requirement for this degree is the satisfactory completion of a minimum approved program of forty hours of course work and a thesis. The thesis requirement may be satisfied by a large composition in *music*, a creative project or original research in theatre history, aesthetics, or criticism in *drama*, or a creative project of acceptable quality in *art*.

In *art*, emphasis will be placed upon a high degree of technical and artistic accomplishment. The student must also have a general knowledge of art history and criticism.

In *drama*, emphasis will be placed not only upon a high degree of technical and artistic accomplishment but also on a general knowledge of theatre history and dramatic literature.

In *music*, the student may select composition, musicology or applied music as his or her special field.

The prerequisite degree for a program in art, drama or music is the Bachelor of Fine Arts, or its equivalent.

Master of Forestry. Prerequisite degree: Bachelor of Science in Forestry or equivalent degree. The minimum requirement for the degree of Master of Forestry is an approved program carrying sixty quarter-hours' credit with a minimum of four quarters in residence. Twenty hours of the required work must be in forestry and so selected as to form a logical major. The program must also include Forestry 921, *Applied Forestry Problems*, for which the student may be allowed not more than ten quarter-hours' credit. At least fifteen hours of additional credit must be earned in forestry or closely related fields. The remaining fifteen hours may be elective. No thesis is required.

Master of Home Economics. Prerequisite degree: Bachelor of Science in Home Economics, or equivalent degree. The minimum requirement for the degree of Master of Home Economics is an approved program of eleven courses (fifty-five quarter-hours) with four quarters of resident study. At least four courses must be taken in a selected field in home economics. These must include Home Economics 921, *Problems in Home Economics*, on which an acceptable written report must be presented. At least two courses in the student's program must be from fields other than home economics.

Master of Landscape Architecture. Prerequisite degree: Bachelor of Landscape Architecture, Bachelor of Architecture or equivalent degree. The requirement for this degree is an approved program of at least forty (40) quarter-hours of course work and an acceptable thesis.

Master of Laws. Prerequisite degree: Bachelor of Laws from an approved school of law. At least one academic year of full time study is required. The thesis and not less than one-half of the student's course work must be in the general field of law. The program for this degree provides opportunity for the student to specialize in a chosen field of law or extend his knowledge of the general field of law.

Doctor of Education. Among workers in the field of Education a demand has developed for advanced professional training which differs in purpose and content from the principles upon which the degree of Doctor of Philosophy is based. As a consequence of this demand the University of Georgia has followed the example of many American universities in establishing the degree of Doctor of Education. This degree places major emphasis upon training for a career as a skilled practitioner in administration, teaching, or other professional educational service.

GENERAL REQUIREMENTS FOR PROFESSIONAL MASTERS' DEGREES

The foregoing statement of Advanced Professional Degrees indicates the specific requirements for each professional master's degree. The general requirements which apply alike to all of them are summarized below.

1. Admission. In order for a student to be granted full admission as a prospective candidate for a Professional Master's degree (1) he must have completed the requirements for the bachelor's degree in a college accredited by the proper regional accrediting association, (2) he must have ranked in the upper half of his class in his undergraduate college work, (3) he must have completed the specific professional work that is considered by the professional school or college concerned to constitute a necessary background for advanced professional training, (4) he must exhibit the personal qualities and the intellectual capabilities that are considered essential to success in his chosen field, and (5) he must be recommended by the staff of his prospective major department, school, or college and approved by the Dean of the Graduate School.

2. Language Requirements. All candidates for graduate degrees are expected to show correctness and good taste in their use of both written and spoken English. There is no foreign language requirement for any professional master's degree except Master of Chemistry.

3. Program. The program of study of each candidate for a professional master's degree will be determined by the school or college concerned in accordance with requirements previously established and approved by the Graduate Faculty for the advanced professional degree which the student seeks. Each program will be subject to approval by the dean of the college concerned and the Dean of the Graduate School.

4. Graduate Record Examination. This examination is required of all students seeking Advanced General or Advanced Professional degrees. It should be taken during the student's first quarter of residence. The dates

on which the examination may be taken are indicated in the Graduate School Calendar.

5. Admission to Candidacy. Admission to the Advanced Professional Division of the Graduate School does not imply that the work taken by the student must be credited toward a degree. No commitment in this matter is made until the student is accepted as a candidate for a degree. A student may be admitted to candidacy for an advanced professional degree after the following conditions have been met:

a. Approval of the undergraduate training of the student by the dean of the school or college concerned and the Dean of the Graduate School;

b. Certification by the student's major professor and the dean of his college that
   (1) all prerequisite work has been completed,
   (2) the Graduate Record Examination has been taken and all other requisite preliminary examinations have been passed,
   (3) the student has demonstrated an aptitude for work in the field of his choice and an ability to do advanced work of an acceptable character;

c. The presentation of a program of work that has the approval of his major professor, the dean of the school or college concerned, and the Dean of the Graduate School.

Application for admission to candidacy for a master's degree must be filed with the Dean of the Graduate School before the first day of classes of the student's final quarter of residence.

6. Required Standing. An average of B+ must be maintained on the program of study used to satisfy degree requirements, and no grade below C will be accepted.

7. Examinations. In addition to all examinations required for admission to candidacy and all examinations on the courses taken, the candidate must pass a final oral examination based upon his total program for the degree. This examination will be conducted by a committee appointed by the Dean of the Graduate School at the request of the dean of the college concerned. It will be open to any member of the faculty who may desire to attend.

8. Residence. The minimum residence requirement for any advanced professional degree is three quarters, and certain of these degrees will require from four to six quarters.

9. Time Limit. All work credited toward the master's degree must be completed within six years.

10. Acceptance of Credit by Transfer. Credit may be allowed for work done in a graduate school of good standing when proper credentials have been presented. Graduate credit may be allowed only when the student was of regular graduate standing in the institution concerned when the work was taken. Any transfer of credit must be recommended by the student's major professor and approved by the Dean of the Graduate School. Such transfer of credit cannot exceed ten quarter-hours, it cannot reduce the residence requirement to less than thirty weeks, and the work transferred must constitute a logical part of the student's program.

11. Extension and Correspondence. Graduate credit is not allowed for work done in extension or by correspondence.

12. Application for Graduation. At the beginning of the quarter in which the candidate for a master's degree expects to be granted the degree he must file with the Dean of the Graduate School an application for graduation. The application must be accompanied by a receipt showing that the candi date has paid his diploma fee of $10.00.

13. Attendance Upon Graduation Exercises. A candidate for a degree must attend the graduation exercises at which his degree is to be conferred, unless he is excused in writing by the Secretary of the Faculty.

REQUIREMENTS—DOCTOR OF EDUCATION

1. Admission. Students who desire to pursue advanced professional training in Education beyond the master's degree and with a view to becoming candidates for the Doctor of Education degree will be expected to file formal application and present themselves to the faculty of the College of Education for special tests and interviews. Recommendation on the student's admission will be made by the College of Education only after its screening procedures have been carried out. Admission will be upon the recommendation of the Dean of the College of Education, or his authorized representative, and approval by the Dean of the Graduate School.

2. Advisory Committee. When a student has been admitted as a prospective candidate for the Doctor of Education degree, the Dean of the Graduate School will appoint three persons recommended by the Dean of the College of Education to serve as an advisory committee for the student, the chairman of the committee being his major professor. The members of this committee will advise the student in planning his program of study, in choosing a subject for his dissertation, and in the pursuit of his program toward the degree.

3. Residence. The degree presupposes a minimum of three full years of study beyond the bachelor's degree and it cannot be secured through summer work alone. At least three consecutive quarters must be spent by the student in resident study on the campus of the University of Georgia. If the student holds a part-time assistantship or has other part-time duties, the residence requirement will be adjusted to make it equivalent to three quarters of full-time study. In individual cases, such modification of the residence requirement as may seem necessary to meet the need for approved field work may be made, such modification being subject to approval by the student's advisory committee, the Dean of the College of Education and the Dean of the Graduate School.

4. Program of Study. The program of study to be offered by the student for the degree should be submitted during the first year of his work as a prospective candidate for the degree. It must provide a major concentration in the field of Education and a minor concentration in courses outside the field of Education and significantly related to the student's vocational objectives.

All requirements for the degree except the thesis and final oral examination must be completed within a period of six years. This requirement dates

from admission of the student as a prospective candidate for the Doctor of Education degree.

5. Preliminary Examination. As a prerequisite to admission to candidacy for the Doctor of Education degree, the student must pass satisfactorily a formal preliminary examination (written and oral) on his major and minor areas of concentration. This examination will be administered by the student's advisory committee and such other persons as may be appointed by the Dean of the Graduate School.

6. Admission to Candidacy. Before the student may become a candidate for the Doctor of Education degree he must have had at least two years of successful experience in teaching or in a closely-related field of work, he must have had a broad background of training, and he must have demonstrated to the faculty of the College of Education those personal qualities that are considered by it to be essential to success in the field of teaching. These conditions having been met, the student may be admitted to candidacy upon (1) approval of the student's program of study and proposed research for the thesis, (2) satisfactory passing of the preliminary examinations, (3) the demonstration of such competency in the methodology of educational research and such proficiency in the use of language as his advisory committee requires of him. Application for admission to candidacy must be filed with the Dean of the Graduate School for his approval not less than one academic year before the proposed date of graduation.

No member of the faculty of the University of Georgia above the rank of instructor may become a candidate for a doctor's degree at the University.

7. Application for Graduation. At the beginning of the quarter in which the candidate expects to be granted the degree, he must file with the Dean of the Graduate School an application for graduation. The application must be accompanied by a receipt showing that the candidate has paid his diploma fee of $25.00.

8. Dissertation. The dissertation required of the candidate for the Doctor of Education degree is the most important single requirement for the degree. It should demonstrate the intelligent application of research techniques to the solution of a problem in educational practice. The problem chosen must be definite and appropriately limited in its scope, the method of investigation must be exact, the source materials must be intelligently evaluated, and the conclusions must be well-supported. It is expected that the pursuit of this study will involve not less than one full year of work—frequently, much more. The finished dissertation must show correctness and good taste in the use of English.

The dissertation may be finally accepted only after it has been read and approved by a committee appointed by the Dean of the Graduate School.

When the finished dissertation has been read and given approval by the student's major professor and the members of his advisory committee, it may be submitted to the Dean of the Graduate School with the request that a reading committee be appointed to represent the Graduate Faculty in passing upon its acceptability. For this purpose three typewritten copies of the completed thesis must be submitted and this must be done not less than four weeks before the proposed date of graduation.

When the dissertation has been finally approved and bound, two copies must be deposited with the University Library and one with the College of Education. Each copy must include a certificate of approval signed by the major professor, the Chairman of the reading committee and the Dean of the Graduate School.

Before the degree will be awarded the student must deposit with the Dean of the Graduate School three copies of an acceptable abstract of the dissertation, not exceeding 1500 words, and a receipt showing that he has deposited with the Treasurer of the University the amount of $50 to cover the cost of publishing the abstract. Five hundred copies of the abstract will be printed for distribution by the Library and the department concerned.

9. Final Examination. When the candidate's dissertation has been approved by the proper committee and all other requirements of his program have been successfully completed, he will be given a final oral examination upon his dissertation and upon the general fields of his major and minor concentration. The final examining committee will consist of the members of the student's advisory committee and such other persons as may be appointed to it by the Dean of the Graduate School. All final oral examinations will be open to any members of the faculty who may desire to attend.

PROGRAMS FOR TEACHER CERTIFICATION

A. For Majors in Education:

The Georgia State Board of Education has approved the College of Education to offer graduate training programs leading to the following types of five-year professional certificates:

Teachers—T-5 certificate
Principals—P-5 certificate
Superintendents—Su-5 certificate
Supervisors—Sv-5 certificate
Guidance Counselors—GC-5 certificate

In addition to the officially approved programs listed above, the College of Education offers special training facilities for visiting teachers and other educational specialists.

Effective with the Summer Quarter of 1951, the College of Education instituted a planned program of training at the sixth-year level (i.e., one year beyond the master's degree) in each of the five areas of specialization listed above. The completion of such a sixth-year program does not result in the awarding of an additional graduate degree or a sixth-year professional certificate; but, upon request, the Dean of the College of Education will furnish the student an official statement certifying that he has satisfactorily completed such a sixth-year planned program of specialized training. Admission to any of the sixth-year programs of training is made on the basis of special qualifying examinations. Inquiries concerning the dates of these qualifying examinations should be addressed directly to the Director of Counselor Training, College of Education.

B. For Majors in Fields Other than Education:

Candidates for degrees in fields other than Education may meet the requirements for a teaching certificate at the five-year level. Non-Education

majors desiring to meet the requirements for the T-5 certificate must complete an approved program of graduate studies which includes a concentration in the teaching field supplemented by a minimum of 15 quarter-hours of professional courses approved by the Chairman of the Division of Graduate Studies of the College of Education. The T-5 certificate can be obtained only by persons who hold a 4-year professional certificate and who have had three years of teaching experience.

FELLOWSHIPS, ASSISTANTSHIPS, AND SCHOLARSHIPS

A number of qualified graduates may be given financial aid in the form of fellowships, assistantships or scholarships while pursuing work leading to graduate degrees. Persons holding assistantships are expected to render certain services to the University. Fellowships and scholarships are derived from funds provided for the purpose of subsidizing outstanding students with special interests and carry no obligation to render service.

Application blanks and further information may be obtained from the Dean of the Graduate School. Applications for the following year should be filed not later than February 1.

Alumni Foundation Fellowships. These fellowships are available to graduate students on a competitive basis. Their number is limited, and only students with unusually high scholastic records need apply.

For the student working toward the master's degree, the Alumni Foundation Fellowship carries a stipend of $1600; for the student who holds the master's degree and is working toward the doctor's degree, the stipend is $2400.

Applications should be filed with the Dean of the Graduate School.

Graduate Assistantships. Graduate assistantships are grouped as third-time or fourth-time, depending upon the extent of duties required of the student. The third-time assistantship carries a stipend of $1000, and the fourth-time assistantship carries a stipend of $800 for the 9-months' session of the University. The Assistant will be expected to assist with the instructional work of his major department, but he will not be placed in charge of any classes or laboratories.

Applications should be filed with the Dean of the Graduate School for transfer to the proper department.

Research Assistantships. A limited number of research assistantships are open to graduate students who are qualified to assist faculty members in their research. The stipends carried by these assistantships vary in amount on a basis of the technical experience of the Assistant and the work required of him. The amount of graduate work that may be carried by the Research Assistant will depend upon the amount of work required of him under his assistantship.

Applications should be filed with the department in which the student proposes to work.

Teaching Assistantships. The University provides a few teaching assistantships that are open to students who hold the master's degree or its equivalent. These assistantships carry stipends ranging from $600 to $1200

per year, depending upon the experience and the amount of work required of the Assistant.

The amount of graduate work that may be carried by the Teaching Assistant will depend upon the amount of teaching required of him.

These assistantships are not handled through the Graduate School. Application should be made directly to the student's major department.

Wildlife Conservation Assistantships. These assistantships are available to majors in biology for graduate work in vertebrate ecology. The theses of students holding these assistantships will be directed toward the solution of problems in fisheries biology or wildlife conservation.

These assistantships carry a minimum stipend of $1440 for a 12-months' appointment.

Application should be made to the Department of Biology.

Comer Fund Assistantships. A portion of the income from the Edward T. Comer Fund is used each year to provide several assistantships for work in the Bureau of Business Research on problems relating to Georgia business. The stipend for these assistantships ranges from $500 to $900 for the nine months' session of the University.

Applications should be directed to the Dean of the College of Business Administration.

Phelps-Stokes Graduate Scholarship. The holder of this scholarship must pursue studies in one of the following departments—Sociology, Economics, Education, or History. He must make a scientific study based upon the Negro and his adjustment to American civilization. The value of this scholarship at present is $500 a year.

Application should be made to the student's major department in the University.

Henry L. Richmond Graduate Scholarship. A portion of the income from the Henry L. Richmond Fund is used to provide scholarships in the Department of Chemistry. One or more $500 scholarships are available each year.

Applications should be directed to the Head of the Department of Chemistry.

Martin Reynolds Smith Fund. By the gift of $2,000, Mr. J. Warren Smith has established this fund in memory of his son, Martin Reynolds Smith. The interest from this investment is to be used as prizes for excellence in research in chemistry.

Applications should be directed to the Head of the Department of Chemistry.

None of the above-mentioned fellowships, assistantships, or scholarships carry remission of fees.

RESEARCH PROGRAM AT THE OAK RIDGE INSTITUTE OF NUCLEAR STUDIES

The University of Georgia is one of the sponsoring universities of the Oak Ridge Institute of Nuclear Studies located at Oak Ridge, Tennessee. Through this cooperative association with the Institute, the Graduate School has at its disposal the facilities of the National Laboratories in Oak Ridge and of the research staffs of these laboratories. When the master's or doctoral candidate has completed his resident work here, it is possible, by special arrangement for him to go to Oak Ridge to do his research problem and prepare his thesis. Such transfer of the student to the Oak Ridge National Laboratories must be initiated through the recommendation of his major professor, and the thesis done there must be recommended by him for acceptance here.

Students may go to Oak Ridge on Oak Ridge Graduate Fellowships which have varying stipends determined by the number of dependents the student has and the level of work that he is doing.

A copy of the Bulletin and Announcement of the Graduate Training Program of the Oak Ridge Institute of Nuclear Studies is available in the office of the Dean of the Graduate School. A Bulletin may also be secured by writing to the Chairman of the University Relations Division of the Oak Ridge Institute of Nuclear Studies, Box 117, Oak Ridge, Tennessee.

All arrangements for these fellowships will be made between the Dean of the Graduate School and the Institute.

In addition to the possibilities that are open to the students, members of the faculty may also be accepted for research appointments, usually not less than three months in duration, in the Oak Ridge National Laboratories. These appointments carry stipends commensurate with those which the staff members would receive here. Through the Oak Ridge Institute, therefore, both the staff and the students are enabled to keep abreast of the most modern developments in atomic and nuclear research.

EXPENSES

Residents of Georgia pay a fee of $183.00 per academic year of three quarters, payable $61.00 at the beginning of each quarter. Non-residents pay an additional amount of $100 per quarter. Room, board and laundry will vary from $165 to $185 per quarter. Books may be estimated at $45 per year. The total estimated expenses will be about $750 to $850 per year for residents of Georgia.

All students are required to take the Graduate Record Examination before they are admitted to candidacy for a graduate degree. The fee for students taking this examination under the Institutional Plan (scheduled for regularly enrolled students) is $5.00.

A candidate for the master's degree must pay a $10.00 diploma fee at the beginning of the quarter of graduation.

A candidate for the doctor's degree must pay a $25.00 diploma fee at least ten days before graduation. This fee covers cost of both the diploma and the hood.

THE FRANKLIN COLLEGE OF ARTS AND SCIENCES

SIDNEY WALTER MARTIN, A.B., M.A., Ph.D., *Dean*
HOWARD TEMPLETON COGGIN, A.B., M.A., Ph.D., *Assistant to the Dean*

ORGANIZATION

The object of the College of Arts and Sciences is to offer to its students a liberal education. It strives to develop in the individual a resourcefulness that will enable him to adapt himself to changing conditions and circumstances and to grapple intelligently with the problems the future is certain to bring. It also attempts to give the student an opportunity to concentrate in certain fields of study that may be helpful in laying a foundation for various professional pursuits.

CURRICULUM

The curricula of the College of Arts and Sciences for the freshman and sophomore years, except for a few elective courses, are fairly uniform and required of all students. In the junior and senior years concentration in one or more of several fields of study is required. These fields of concentration are as follows:

DIVISION OF LANGUAGE AND LITERATURE: the departments of Classics, English, and Modern Foreign Languages.

DIVISION OF SOCIAL SCIENCES: the departments of Economics, Geography, History, Philosophy, Political Science, Religion, Sociology and Anthropology.

DIVISION OF PHYSICAL SCIENCES: the departments of Chemistry, Mathematics, Geology, and Physics and Astronomy.

DIVISION OF BIOLOGICAL SCIENCES: the departments of Bacteriology, Botany, Entomology, Psychology, and Zoology.

DIVISION OF FINE ARTS: the departments of Art, Music, and Speech and Drama:

The degrees offered in the College are:

BACHELOR OF ARTS, for which the major division must be Language and Literature, Social Sciences, Biological Sciences, Physical Sciences, Art, or Music.

BACHELOR OF SCIENCE, for which the major division must be Physical Sciences or Biological Sciences.

BACHELOR OF SCIENCE IN CHEMISTRY, for which the major subject must be Chemistry.

BACHELOR OF FINE ARTS, for which the major division must be Fine Arts.

BACHELOR OF SCIENCE IN NURSING EDUCATION.

ACADEMIC ADVISERS

When an undergraduate student initially registers in the College of Arts and Sciences he is assigned to a faculty member who serves as his academic adviser during his first two years. This assignment is made on the basis of the expressed academic interests of the student. The academic adviser assists the student in registration, and is available during his office hours for counseling with the student about his study methods, his progress, his plans and purposes, and any other matters pertaining to his academic progress. He will hold required conferences with students who demonstrate either unusual ability or unsatisfactory results. He will advise sophomores on the choice of their fields of concentration and refer them to the appropriate departmental heads for the preparation of senior college sequences.

SELECTING MAJOR

On or before registering for the junior year the student must select the degree for which he is a candidate, the division in which he will take his major work, and the subject in this division in which he expects to major. The professor in charge of the student's major subject is known as the student's major professor and all courses constituting the student's major division program (both required and elective courses) must be approved by this adviser. When approved by the dean of the College of Arts and Sciences this program becomes a requirement for the degree. All approvals to be official must be in writing and filed in the Registrar's records.

ELECTIVE COURSES

In all degrees in the College of Arts and Sciences all courses in the University carrying credit of three or more quarter hours are open as electives to the extent allowed by the degree requirements when approved by the student's major professor and his dean. Not more than fifteen elective hours credit will be allowed for professional courses in the professional schools, except in the degrees with special provision for the professional certificate.

BACHELOR OF ARTS AND BACHELOR OF SCIENCE DEGREES

The main purpose of the curricula for these degrees is to aid in developing an appreciation for cultural pursuits and to prepare the student for advanced graduate study in the various liberal arts fields and for matriculation in professional schools such as Law, Medicine, Business Administration, and Journalism.

TRANSFER STUDENTS

Students transferring from standard colleges and universities with junior classification will not be required to take the survey courses offered in the freshman and sophomore years, provided their transcripts show that they have completed an equivalent number of hours in the division covered by the survey courses.

Students transferring from any of the junior colleges or other units of the University System to the College of Arts and Sciences are given full credit for all regular curriculum work completed with satisfactory grades. Any uncompleted required courses in the freshman and sophomore years must be taken.

See total requirements below.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

(Effective September 1, 1955)*

Adviser: Horace Montgomery

Freshman and Sophomore Years

	Hours		Hours
English 2x-y	10	Literature (See Item 6 below)	10
Mathematics 101x and Mathematics 101y, 356, or Philosophy 358 (See Item 7 below)	10	History 110x-y	10
Political Science 1	5	Laboratory Science (See Item 8 below)	10
Foreign Language through 104 (See Item 4 below)	10-20	Social Studies (See Item 10 below)	15-5
Science (non laboratory) or Social Studies (junior division) (See Item 10 below)	10-0	Science (non laboratory) (See Item 8 below)	0-10
Military Science 1 or Air Science 5	5	Military Science 2 or Air Science 6	5
Physical Education 1-2 (men)	0	Physical Education 1-2 (men)	0
Physical Education 1-2 (women)	5	Physical Education 1-2 (women)	5
Total	50	Total	50

Junior and Senior Years

(95 hours of required and elective junior and senior division courses. See Total Requirements for A.B. and B.S. degrees, page 109)

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE

(Effective September 1, 1955)*

Adviser: William M. Carlton

Freshman and Sophomore Years

	Hours		Hours
English 2x-y	10	Literature (See Item 6 below)	10
Mathematics 101x-y	10	History 110x-y	10
Political Science 1	5	Laboratory Science	10
Foreign Language through 103 (See Item 4 below)	10-15	Science (non laboratory) (See Item 8 below)	10-15
Science (non laboratory)	10-5	Laboratory Science, Mathematics or Social Studies (See Items 8 and 10 below)	5-0
Military Science 1 or Air Science 5	5	Military Science 2 or Air Science 6	5
Physical Education 1-2 (men)	0	Physical Education 1-2 (men)	0
Physical Education 1-2 (women)	5	Physical Education 1-2 (women)	5
Total	50	Total	50

Junior and Senior Years

(95 hours of required and elective junior and senior division courses. See Total Requirements for A.B. and B.S. degrees, page 109)

*Students who enter the University prior to September 1, 1955 may, with the permission of the Dean, graduate under the requirements of this curriculum.

TOTAL REQUIREMENTS FOR A.B. AND B.S. DEGREES

Hours

1. Classical Culture 301 x-y 10

This requirement is for Bachelor of Arts students only and may be satisfied by one ten hours sequence from the following:

Classical Culture 301x and Classical Culture 301y
Classical Culture 301x and Classical Culture 358
Classical Culture 354, 356, or 357 and Classical Culture 301y
Classical Culture 354, 356, or 357 and Classical Culture 358

If Latin or Greek is elected to meet the foreign language requirement (see Item 4), the student is exempt from the Classical Culture requirement.

2. English 2x-y 10

3. Fine Arts 300 5

This is a requirement for A.B. students and is an elective for B.S. students.

4. Foreign Language 10-20

For A.B. students:

A student continuing a foreign language taken in high school will be placed in the appropriate course on the basis of placement tests and other pertinent information.

A student must complete twenty hours in one language. These twenty hours may be a combination of high school and college courses, but at least ten hours must be in college courses numbered 103 or above.

For B.S. students: 10-15

A student continuing a foreign language taken in high school will be placed in the appropriate course on the basis of placement tests and other pertinent information. A student must complete fifteen hours in one language. These fifteen hours may be a combination of high school and college courses, but at least ten hours must be in college courses, and at least five of these ten hours must be in courses numbered 103 or above.

5. History 110 x-y 10

6. Literature 10

Two courses from the following: English 22 x-y, "Survey of European Literature" or French 201-202; or German 201-202; or Spanish 201-202.

7. Mathematics and/or Philosophy 10

For A.B. students: Mathematics 101x and one course from the following: Mathematics 101y, 356, or Philosophy 358.

For B.S. students: Mathematics 101 x-y

8. Science 20-40

For A. B. students: (20 hours of which 10 must be with laboratory)

Option I

Human Biology 1-2 or Botany 10-11

A double laboratory course from
Chemistry 21-22 or Physics 20-28 (27)
or Geology 25-26 ..... 10 hours

Option II

Physical Science 1 and Earth Science 4
or Chemistry 21 ..... 10 hours

A double course from Botany 21-22 or Zoology 25-26 ..... 10 hours

For B.S. students: 40 hours of Science or 30 hours of Science plus 10 hours of mathematics, as follows:

Human Biology 1-2 or Botany 10-11 ..... 10 hours

Physical Science 1 and Earth Science 4 or Chemistry 21 ..... 10 hours

Two courses (a 10 hr. sequence) from: ..... 10 hours

Zoology 25-26
Botany 21-22
Chemistry 21-22-23
Geology 25-26
Physics 20, 27, 28, 329

Two additional laboratory courses or mathematics ..... 10 hours
(Only 10 hours of laboratory science permitted in one division).

9. Political Science 1 5

10. Social Studies 20-25

For A.B. students: (25 hours)

Five courses from:
Anthropology 102
Economics 5x
Geography 101
History 350 x or y
Philosophy 104 or 305
Psychology 1
Sociology 5

For B.S. students: (20 hours)

Four of the above courses or three of the above courses plus Fine Arts 300.

11. Major 40

The major consists of a minimum of 40 hours taken in one division, of which at least 30 of these hours must be in the senior division and taken after admission to the senior division. (A minimum of 20 hours must be taken in one subject). No course can be used to satisfy any part of the minimum of 40 hours required in the major if it has also been used to satisfy any of the requirements listed under items 1-10 above.

No course with a grade of D or D+ can be used to satisfy any part of the minimum requirement in a student's major.

For the Bachelor of Arts degree, the major division must be either Language-Literature, Social Sciences, Physical Sciences, Biological Sciences, Art, or Music. For the Bachelor of Science degree the major division must be either Physical Sciences or Biological Sciences. By special action of the Dean and the major professor a combined divisional major may be offered, part from the Biological Science Division and part from the Physical Science Division, or one may be authorized, part from the Social Science Division and part from the Language-Literature Division.

12. Free elective courses (at least 15 hours must be outside of major subjects)

Bachelor of Science 25-30

Bachelor of Arts 20-30

13. Total requirements 185

(Exclusive of Military Science 1-2 or Air Science 5-6 and Physical Education 1-2)

The courses listed above fall into two groups: junior division courses (courses with a number less than 200) and senior division courses (courses numbered 200 or above). A junior division student is one who has less than 84 academic hours and a senior division student is one who has 84 or more academic hours. Senior division students must give priority at registration to all uncompleted junior division requirements.

The Colleges of Arts and Sciences insists that a thorough preparation in the required junior division subjects is necessary not only as a foundation for a liberal education but also as a prerequisite for more advanced courses. Although the minimum number of hours required is 185, it does not necessarily mean that the obtaining of 185 hours of credit will insure one a degree. There are certain specific requirements that are designed to encourage the student to take first those subjects which will enable him to more profitably pursue his college career and to postpone the more advanced courses, including those in his major, until he is properly prepared.

1. Senior Division Requirements:
   (a) 60 hours of senior division courses* after reaching senior division standing, and
   (b) 45 hours (35 hours in the combined B.S.-M.D. Program), after senior division standing, of senior division courses in the College of Arts and Sciences while in residence in the College of Arts and Sciences,** and
   (c) 30 hours in senior division courses must be taken in residence during the three quarters' work immediately preceding graduation.
2. Major Subject Requirements:
   (a) Not over 10 hours taken before a student has obtained senior division standing can count on his major regardless of the course number, and
   (b) All courses in the major must be approved by the student's major professor, and
   (c) At least half of the courses constituting the major study must be taken in residence, and
   (d) The grade in each course used towards the 40 hours required in the division of the major subject must be C or above.
3. Professional Credit:

   Elective credit for professional courses (courses not offered by the College of Arts and Sciences) will not exceed 15 hours, except in the programs leading to a provisional and a professional teaching certificate.
4. Scholastic Requirements:

   An average of C with not more than one fourth D's must be obtained.
5. Residence Requirements:

   A minimum of three full quarters in the College of Arts and Sciences.

*A student who has satisfied the language requirement for his degree in one foreign language may count the courses taken during his junior and senior years in any other foreign language regardless of course numbers towards his senior division requirement of 60 hours. This provision is subject to the general University rule that no credit is granted in the College of Arts and Sciences for a 101 course in a language if not followed by 102.

**Students in the combined A.B.-LL.B. program may use credits in Advanced Military Science and Air Science while registered in the Law School toward their senior division requirements for the A.B. degree.

COMPARISON OF THE REQUIREMENTS FOR THE A.B. AND B.S. DEGREES UNDER THE NEW CURRICULUM

(Effective September 1, 1955)*

	A.B. Hours	*B.S.* Hours
English 2x-y	10	10
Mathematics	5	10
Mathematics or Philosophy	5	0
Political Science 1	5	5
Modern Foreign Languages	10-20	10-15
Laboratory Science	10	10
Non Laboratory Science	10	20
Additional Laboratory Science or Mathematics	0	10
Literature	10	10
History 110 x-y	10	10
Social Science (junior & senior division)	25	20
Fine Arts 300	5	0
Classical Culture 301 x-y	10	0
Major	40	40
Electives	30-20	30-25
Total Academic Hours	185	185
Additional Requirements:		
Military Science 1-2 or Air Science 5-6 (Men)	10	10
Physical Education 1-2 (men)	0	0
Physical Education 1-2 (women)	10	10

MAJORS IN FOREIGN AREAS WITHIN THE BACHELOR OF ARTS DEGREE

On the advice of their major professor, students may select majors dealing with specific areas outside the continental United States. This option is designed to provide (1) both a cultural background and more intensive study of foreign areas than is possible within a major taken exclusively in a single department, and (2) an undergraduate preparation for advanced studies in foreign areas or international relations.

The student desiring to concentrate in a foreign area should major in one of the following departments: Economics, Geography, History, Modern Foreign Languages, Political Science. He should consult with the major professor in one of the above departments to select courses from related departments. A minimum of 20 hours of courses numbered above 200 must be taken in the major department; the remainder of the student's time available for major and elective courses should be spent in courses in related departments. All other requirements for the A.B. degree as outlined on pp. 109-111 must be met. It is strongly recommended that the student complete 10 hours in one modern foreign language in courses numbered above 200 which emphasize speaking and writing.

MAJOR IN ART OR MUSIC WITHIN THE BACHELOR OF ARTS DEGREE

	Hours
Basic Curriculum: Items 1 through 10, A.B. Degree, pages 109-110	125 to 135
For Major in Art:	
Freshman and Sophomore Years—Art 20, 30, 40	15
Junior and Senior Years—Art 281, 282, 283, 121, 231 or 241, Art (on advisement), Music 343 or 358	33 to 35

*Students who enter the University prior to September 1, 1955 may, with the permission of the Dean, graduate under the requirements of this curriculum.

FOR MAJOR IN MUSIC:

Freshman Year—Music 10, 11, 12	9
Sophomore Year—Music 34, 35, 36, 22a-b-c	15
Junior and Senior Years—Music 350, 370, 353, 371, 442, 462, 456 or 457, Art 317	32
Applied Music—Music 85abc, 86abc, 287abc, 288abc	12

Electives, when needed, to complete total of 185 quarter hours, exclusive of Military Science 1-2 or Air Science 5-6 and Physical Education 1-2.

CURRICULUM IN ARTS AND LAW

Combined A.B.-LL.B. Program

(An Eighteen-Quarter Combined Curriculum)

Adviser: ALBERT JONES

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 2x-y	10	Literature (See Item 6 above)	10
Mathematics 101x	5	History 110 x-y	10
Human Biology 1-2, or Botany 10-11, or Physical Science 1 and Chemistry 21 or Earth Science 4	10	Laboratory Science (See Item 8 above)	10
Foreign Language 103-104 (See Item 4 above)	10	Social Studies (See Item 10 above)	10
Political Science 1	5	Electives	5
Social Studies (See Item 10 above)	5	Military Science 2 or Air Science 6	5
Military Science 1 or Air Science 5	5	Physical Education 2 (for men) or Physical Education 2 (for women)	0 / 5
Physical Education 1 (for men)	0		
Physical Education 1 (for women)	5		
Total	50	Total	50

JUNIOR YEAR

	Hours
History 350x or 350y	5
Philosophy 358	5
Classical Culture 301 x-y (See Item 1 above)	10
Fine Arts 300	5
Electives (Of which four courses must be numbered 200 or above)	25
Total	50

Three quarters of residence work, including 45 hours in courses numbered 200 or above, devoted exclusively to courses in the College of Arts and Sciences will be required after admission to senior division standing.

For language requirement see item 4 in list of total requirements.

SENIOR

Satisfactory completion of the first year of work in the School of Law and a total of 185 academic quarter hours.

BACHELOR OF SCIENCE IN CHEMISTRY

Adviser: A. W. Scott

The curriculum for this degree offers training in the field of chemistry and its allied sciences for students who desire to enter commercial or government laboratories, to enter the teaching profession, to become associated with chemical industries in a non-technical position, or to pursue graduate work in chemistry in order to enter some field of research or college teaching.

REQUIRED COURSES IN FRESHMAN AND SOPHOMORE YEARS

Freshman and Sophomore Years

	Hours		Hours
English 2x-y and 22 x	15	English 22y	5
Chemistry 21-22-23	15	Mathematics 354, 355	10
Mathematics 101x-y, 110	15	German 101-102-103	15
Military Science 1 or Air Science 5	5	Chemistry 340a-b, 380	15
Physical Education 1 (for men)	0	Military Science 2 or Air Science 6	5
or		Physical Education 2 (for men)	0
Physical Education 1 (for women)	5	or	
		Physical Education 2 (for women)	5
Total	50	Total	50

An average of B or better is required, both in chemistry and in all freshman and sophomore work, in order to continue in the junior year for this degree, and an average of B must be maintained in both thereafter.

No transfer student will be accepted as a candidate for this degree later than the beginning of his junior year. A student who wishes to take this degree should enter the university no later than the beginning of his sophomore year.

REQUIREMENTS IN JUNIOR AND SENIOR YEARS

(1) Political Science 1: Five hours.

(2) French: Through French 103*

(3) Physics: Fifteen hours.

(4) Chemistry: 440; two of 441, 480, or 481; 445h, 490a-b-c, two of 420, 421, 424, 522; and one other 5-hour course.

(5) Comprehensive Examination: The passing of a comprehensive examination (embracing the principal divisions of chemistry), this examination to be taken toward the end of the senior year.

(6) Electives: A sufficient number of hours to make a total of not less than 185, exclusive of the required courses in Military Science 1-2, Air Science 5-6, or Physical Education 1-2.

CURRICULUM IN SCIENCE AND MEDICINE

(Combined B.S.-M.D. Program)

Adviser: John W. Nuttycombe

PRE-MEDICAL PROGRAM

Most students will find it necessary to have a degree before they gain admittance to either the Medical College of Georgia or to any other medical school and are therefore advised to follow the regular four year program as outlined on pages 109-111 which leads to the A.B. or B.S. degree. However, students of outstanding ability who plan either to enter the Medical College of Georgia or to seek, without a degree, admittance to some other medical school may take the Combined B.S.-M.D. program outlined below:

*If two years of French were taken in high school, French through 103 should be taken in the freshman year.

Freshman and Sophomore Years

	Hours		Hours
English 2 x-y	10	Literature	10
Mathematics 101x	5	(See Item 6, page 109)	
French 103 or German 103	5	Mathematics 101y	5
Political Science 1	5	Zoology 25-26	10
Chemistry 21-22	10	Physics 20 or 27, and 28	10
Human Biology 1-2	10	Chemistry 23	5
Military Science 1 or Air Science 5	5	Psychology 1	5
Physical Education 1 (for men)	0	Military Science 2 or Air Science 6	5
or		Physical Education 2 (for men)	0
Physical Education 1 (for women)	5	or	
		Physical Education 2 (for women)	5
Total	50	Total	50

Junior Year

	Hours
Chemistry 340a-b, 380	15
Physics 329	5
Economics 5x or Sociology 5	5
History 110 x-y	10
Zoology 355	5
Electives (courses numbered 200 or above)	10
Total	50

(A student will find it difficult to meet the requirements in one year of residence* unless he is prepared to take either French 103 or German 103 upon entrance to the University)**

Senior Year

The satisfactory completion of the first year's work at the Medical College of Georgia at Augusta and a total of 185 academic quarter hours.

TWO-YEAR PRE-VETERINARY MEDICINE PROGRAM

Adviser: John W. Nuttycombe

Freshman and Sophomore Years

	Hours		Hours
English 2 x-y	10	English 6	5
Mathematics 101 x-y	10	Dairy 3	3
Political Science 1	5	Animal Husbandry 1	3
Chemistry 21-22	10	Poultry Husbandry 60	3
Botany 21-22	10	Zoology 25-26	10
Military Science 1 or Air Science 5	5	Chemistry 340 a-b	10
Physical Education 1 (for men)	0	Physics 20	5
or		Electives	7
Physical Education 1 (for women)	5	Military Science 2 or Air Science 6	5
		Physical Education 2 (for men)	0
		or	
		Physical Education 2 (for women)	5
Total	50	Total	51

*See residence rule, page 57.
**See item 4, page 109.

B.S. DEGREE WITH A MAJOR IN MEDICAL TECHNOLOGY

Adviser: JOHN W. NUTTYCOMBE

The College of Arts and Sciences cooperates with the Medical College of Georgia in giving a B.S. degree with a major in Medical Technology upon completion of 155 hours of work at the University and 30 quarter hours at the Medical College of Georgia. The work at the University of Georgia consists of the following courses:

	Hours
English 2x-y, 22x-y	20
Political Science 1	5
History 110x-y	10
Mathematics 101x-y	10
Foreign Languages:	15
(15 hrs. or 10 hrs. plus elective)	
Social Science	20
(4 courses)	
Physics 20, 329	10
Chemistry 21, 22, 23, 380, 340 a, b	30
Human Biology 1, 2	10
Zoology 25, 26	10
One course from the following:	5
(Bacteriology 410, Entomology 376, Zoology 357, 372, 390)	
Bacteriology 350, 409	10
Total	155

The work at the Medical College of Georgia consists of the following courses given over a 12 month's period. Clinical work will be done in the Eugene Talmadge Memorial Hospital.

Medical Microbiology, Biochemistry, Clinical pathology, Hematology, and Immunology.

The B.S. degree with a major in either the Biological or Physical Sciences would, also, equip a student to go into Medical Technology training. In other words, the student does not have to take the combined degree but may take the straight B.S. degree before beginning his technician's training.

PRE-PROFESSIONAL COURSES

In addition to those professions already mentioned, the College of Arts and Sciences offers pre-professional courses as a foundation for study in any professional school or college.

CURRICULUM FOR THE BACHELOR OF ARTS DEGREE WITH PROVISIONS FOR A PROFESSIONAL CERTIFICATE FOR TEACHING IN SECONDARY SCHOOLS

(Effective September 1, 1955)*

Adviser: HORACE MONTGOMERY

The requirements for this degree total 190-200 hours, exclusive of Basic Military Science and Physical Education 1-2, with 155-165 hours to be taken in the College of Arts and Sciences and a minimum of 35 hours to be taken in the College of Education. The program of the individual student will be worked out jointly by the Dean of the College of Arts and Sciences and the Dean of the College of Education. Students are advised to plan the program as early as possible, not later than during the first part of the sophomore year.

*Students who enter the University prior to September 1, 1955, may, with the permission of the Dean, graduate under the requirements of this curriculum.

Requirements

	Hours
Mathematics 101x and Mathematics 101y or Mathematics 356 or Philosophy 358	10
Science (non laboratory)	10
(Human Biology 1-2 or Botany 10-11 or Physical Science 1 and either Chemistry 21 or Earth Science 4)	
Laboratory Science (see item 8 page 109)	10
Political Science 1	5
History 110 x-y	10
English 2x-y	10
Literature (see item 6 page 109)	10
Foreign Language 103-104 (see item 4 page 109)	10-20
Classical Culture (see item 1 page 109)	10
Fine Arts 300	5
Social Studies (Psychology 1 and three other courses)	20
(See Item 10 page 110)	
Major	40
Elective	5
Education	35
(Including 303, 304, 335, 336, 346, 347, 348 or as otherwise specified by Dean of the College of Education)	
Total	190-200

DIVISION OF FINE ARTS

The Division of Fine Arts is administered by the College of Arts and Sciences. It includes art, music, and speech and drama. The function of this Division is to give training in appreciation, to help students form standards of taste, to promote culture in the entire community, and to train specialized performing artists and teachers. To accomplish these objectives this Division collaborates with other schools, divisions, and departments, especially those of languages, education, and home economics. In the College of Arts and Sciences curricula of four years are offered, with a major in either art, music or speech and drama.

BACHELOR OF FINE ARTS DEGREE

Adviser: Ezra Sellers

Freshman and Sophomore Years

	Hours		Hours
English 2x-y	10	Literature	10
		(See Item 6, page 109)	
Political Science 1	5	History 110 x-y	10
Foreign Language (2)	10	Science (1)	10
Mathematics 101x	5	Fine Arts (3)	15 to 21
Fine Arts (3)	15	Military Science 2 or Air Science 6	5
Military Science 1 or Air Science 5	5	Physical Education 2 (for men)	0
Physical Education 1 (for women)	5	or	
or		Physical Education 2 (for women)	5
Physical Education 1 (for men)	0		
Total	50	Total	50 to 56

(1) See Item 8, page 109. Non-laboratory science in either Option 1 or Option 2.

(2) See Item 4, page 109. BFA majors in Voice are permitted to substitute one language through 103 and one language through 102 for the language requirement.

(3) Major in Art

No student majoring in art will receive credit toward graduation for any grade below C for a required course in his major area of concentration.

Concentration in Art Education, Art (Home Economics), Advertising Design and Commercial Art, Ceramics, Crafts, Drawing and Painting, or Interior Design:
Freshman—Art 20, 30, 40
Sophomore—Art 111, 121, 211

Major in Music

Concentration in Applied Music, Music Literature, Theory-Composition
Freshman—Music 10, 11, 12, and 71abc
Sophomore—Music 34, 35, 36, 22abc, and 72abc

Concentration in Music Education
Freshman—Music 10, 11, 12, 85abc, and 87abc
Sophomore—Music 34, 35, 36, 22abc, 86abc, and 88abc

Major in Speech and Drama

Concentration in General Speech

Freshman—Speech-Drama 1
Speech-Drama 8
Speech-Drama 2

Sophomore—Speech-Drama 209
Speech-Drama 50
Speech-Drama 222

Concentration in Drama

Freshman—Speech-Drama 1
Speech-Drama 8
Speech-Drama 2

Sophomore—Speech-Drama 209
Speech-Drama 3
Speech-Drama 222

Concentration in Speech-Drama Education

Freshman—Speech-Drama 1
Speech-Drama 8
Speech-Drama 2

Sophomore—Speech-Drama 209
Speech-Drama 50
Speech-Drama 222

Concentration in Speech Correction

Freshman—Speech-Drama 8
Speech-Drama 50
Psychology 1

Sophomore—Speech-Drama 209
Science 10 hours (See Item 8, page 109). Non-laboratory science in either Option 1 or Option 2.

DEPARTMENT OF ART

The Department of Art occupies the entire east wing of the Fine Arts Building. Besides studios and staff offices, it includes a spacious art gallery where periodically changing exhibitions are shown. The old Library Building houses the Georgia Museum of Art in which the Eva Underhill Holbrook Memorial paintings form the nucleus of a permanent collection. The General Library contains an extensive collection of books and prints in the field of art. Closing the calendar for the season is an annual exhibition of

students' work from which examples are selected to be kept in the Department.

The objective of the Department of Art is to provide training in the fundamental principles of the creative visual arts. Emphasis is given to active experience with tools and materials. A well-balanced program with its courses in drawing and painting, design, art history, art structure, commercial art, crafts, ceramics, sculpture, art education, and interior design is so integrated that each course functions to advantage in its relations to each of the other courses. From this integration the student is enabled to derive a knowledge of the basic principles underlying all art, and is hereby better equipped to interpret, appreciate, and create works of art.

In the freshman and sophomore years, 30 hours of art are required in addition to the general academic requirements. On entering the junior year, the student selects his major field of concentration from the six fields offered: Art Education, Advertising Design and Commercial Art, Ceramics, Crafts, Interior Design, and Painting and Drawing. Upon completion of this program and fulfillment of all requirements, the Bachelor of Fine Arts degree is conferred. In case of students who have majored in Art Education, upon recommendation of the Dean of the College of Education, the State Department of Education will grant a professional certificate to teach Art.

The Bachelor of Arts degree with a major in art is also offered. (See A.B. degree.) In the College of Education a Bachelor of Science in Education with a major in art is offered. (See College of Education.)

Through the cooperation of the School of Home Economics the Bachelor of Fine Arts degree with a major in art and a specialization in home economics is offered for those interested in combining art and homemaking.

TRIPS

Each year art majors, accompanied by members of the Art Staff, make trips to leading museums and exhibitions. Sketching and painting trips are made occasionally during the year to localities within driving distance of Athens.

INTERNSHIPS

Arrangements have been made with leading commercial establishments in the South in order that art majors may serve internships during the summer between their junior and senior years. In this manner practical experience is related to the college curriculum.

BACHELOR OF FINE ARTS—MAJOR IN ART

REQUIRED COURSES IN JUNIOR AND SENIOR YEARS

Courses to be chosen in consultation with major professor. No student majoring in art will receive credit toward graduation for any grade below C for a required course in his major area of concentration.

1. ART EDUCATION

	Hours
Science (1)	10
Ceramics	5
Art 210 or 504	5
Art 283	5
One from Art 220, 251, 252, 281, 282, 387, 389	5
Two from Art 221, 222, 223, 231, 232, 241, 242, 270, 271, 516	10
Art 513	5
Education 303	5
Education 304, 335.9, 336.9	15
Education 346.9, 347.9, 348.9	15
Music (Recommended 358)	5
Electives	10
	95

2. ADVERTISING DESIGN AND COMMERCIAL ART

	Hours
Science (1)	10
Art 241, Watercolor	5
Art 231	5
Art History	15
Art 220	5
Art 206, 208, 209, and 210	20
Art 200, Technical Problems	5
Landscape Architecture 55	5
Journalism (Recommend 457)	5
Music (Recommend 358)	5
Electives (Recommend Art 221, 223 and 207; or Art 387 and Drama 335)	15
	95

3. CRAFTS

	Hours
Science (1)	10
Art 210, Lettering	5
Crafts (Senior Division)	15
Art 220, Photographic Design	5
Ceramics	5
Art History	15
Landscape Architecture 55	5
One from Art 200, 551, 552	5
Music (Recommend 358)	5
Electives (to be approved by major professor. Recommend Art 221, 208, 206; Ceramics; Sculpture; Drama 335; Religion; Anthropology 102, 211, 301; Psychology 1; Physics 226, 227, 228; Botany 323)	25
	95

4. CERAMICS

	Hours
Science (1)	10
Art 270, Sculpture	5
Art History	15
Ceramics (Senior Division)	25
Art 221, Drawing and Composition	5
Painting	10
Crafts	5
Electives (Recommend: Interior Design, Anthropology 102 and 302, Music 358, Sculpture, Landscape Architecture)	20
	95

5. DRAWING AND PAINTING

	Hours
Science (1)	10
Art 222, Drawing and Modeling	5
Painting and Drawing	25
Art 270, Sculpture	5
Art History	15
Music (Recommend 358)	5
Electives (Recommend Art 207, Art 271, Crafts, Drama 335, Landscape Architecture 55, Philosophy 399, Psychology 1, and Sociology 5)	30
	95

6. ART (HOME ECONOMICS)

	Hours
Science (1)	10
Art 281, 282, 283	15
Three from Home Economics 5, 20, 75, 293	15
Home Economics (Senior Division)	10-20
Electives (to be approved by major professor)	35-45
	95

7. INTERIOR DESIGN

	Hours
Science (1)	10
One from Art 221, 241	5
Art History 281, 282, 283	15
Landscape Architecture 55	5
Interior Design 290, 387, 389, 390, 391	25
Crafts or Ceramics	5
Electives (To be approved by major professor. Recommend Art 221 or 241; Crafts, Ceramics. Landscape Architecture, Home Economics, Business Administration, Philosophy, Psychology, Sociology)	30
	95

DEPARTMENT OF MUSIC

A student majoring in music for a B.F.A. degree may concentrate in

a) Applied Music (requiring a public recital, instrumental or vocal)

b) Theory-Composition (requiring an original major work publicly performed)

c) Music Literature (requiring a comprehensive examination)

d) Music Education (specializing in instrumental or vocal work)

The degree of Bachelor of Arts with a major in Music is offered in the College of Arts & Sciences. The degree of B.S. in Education with a major in Music Education is also offered. (See College of Education.)

Junior division courses for a major in music include the regular academic courses in addition to courses in elementary music theory, harmony, history, and applied music. These courses are designed to give the student a practical knowledge of the theory of music, ear training, harmony, and sight-singing. The senior division courses are designed to give the student a broader and more cultural background in music. A limited number of practical courses in music may be taken for credit. See explanations at the end of course announcement in Music.

Much stress is laid on public performance through weekly music appreciation programs and student recitals on the campus, and other programs in fine arts centers established throughout the state. Two oratorios and one operetta are given each year by the students. An outstanding concert series of internationally known artists and a Chamber Music Festival in the Spring, add to the cultural atmosphere of the campus.

BACHELOR OF FINE ARTS—MAJOR IN MUSIC

REQUIREMENTS IN JUNIOR AND SENIOR YEARS

(1) Major Concentrations:	Hours
(a) Applied Music—public recital (instrumental or vocal).	
Music Literature courses 350, 353, 442, 456, 457, 462	22
Music Theoretical courses 370, 371, 374ab	16
Conducting 362a	2
Applied Music 273abc, 274abc	12

(1) See Item 8, page 109. Non-laboratory science in either Option 1 or Option 2.

(b) Theory-Composition—large original composition in concert, instead of public recital, Music 475 and 476 required; Music 333 recommended; otherwise same as Applied Music.

(c) Music Literature—comprehensive examination and performance before music faculty, addition of 10 hours in Music Literature; otherwise same as Applied Music.

(d) Music Education—a comprehensive examination and performance before the music faculty will be required before graduation. All students must play in Orchestra or Band, or sing in choral organizations regularly.

Theoretical Courses 370, 371, 374ab 16
Applied Music 287abc, 288abc, 289abc, 290abc 12
Music Literature Courses—from 350, 353, 442, 456, 457, 462 12
Education Courses 312, 313, 314, 315 20
Methods Courses—choice of:

a. Instrumental: 251, 252, 253, 263abc, 362abc, 389 17

b. Vocal: 263abc; 362abc, 365 or equivalent, 389 16

(2) Science: 10 hours
(See Item 8, page 109. Nonlaboratory science in either Option 1 or Option 2.)

(3) Art: 5 hours

(4) English: One approved senior division course, 5 hours

(5) Electives: A sufficient number of hours to bring the total to 185, exclusive of the required courses in Military Science 1-2 or Air Science 5-6 or Physical Education 1-2. Courses in fine arts, English, history, and foreign languages are especially recommended. 0 to 20 hours.

(6) All music majors must be able to read simple hymns or music of similar difficulty on the piano. All music majors must participate in ensemble groups.

DEPARTMENT OF SPEECH AND DRAMA

The Department of Speech and Drama provides specialized training in general speech, drama and theatre, and speech correction. However, many of the courses are open to students who wish to enrich their knowledge and heighten their appreciation of speech and the arts of the theatre. The purpose of the course is threefold: (1) to give an opportunity for talented students to prepare themselves for professional work in the fields of speech, drama and theatre, speech correction, and children's theatre: (2) to train leaders for the educational field—teachers, directors, and technicians for schools, colleges, and civic theatres; (3) to make available for students in the University certain courses which will aid them in developing an intelligent interest in the fields of speech and drama.

The University Theatre. In addition to the various courses, a series of productions is presented each season by the University Theatre, an organization designed for all students who are interested in any phase of dramatic production. The productions are planned in a way to give students, as nearly as possible, the actual experience of producing plays as they are produced in the professional theatre. They are cast and rehearsed by staff directors and the productions designed and built by students working under the supervision of the instructors in the various courses. No additional fee is charged for membership in this group.

The Speech and Hearing Clinic. The general diagnostic services of the Speech and Hearing Clinic are available to individuals who have speech or hearing problems. The functions of the clinic are part of the training program in Speech Corection. Individuals interested in receiving help should contact the Speech and Hearing Clinic for individual and group therapy.

INTERCOLLEGIATE DEBATE. The Department of Speech and Drama assists the University of Georgia in sponsoring intercollegiate forensic activities. All interested students are invited to participate. The university also has a chapter of Pi Kappa Delta, National Honorary Forensic Society.

BACHELOR OF FINE ARTS—MAJOR IN SPEECH AND DRAMA

REQUIRED COURSES IN JUNIOR AND SENIOR YEARS

1. GENERAL SPEECH

JUNIOR	Hours	SENIOR	Hours
Science (1)	10	Speech-Drama 387	5
Speech-Drama 386	5	Speech-Drama 412	5
Speech-Drama 352	5	Speech-Drama 347	5
Speech-Drama 310	5	Speech-Drama 591	5
Speech-Drama 350	5	*Electives	30
Speech-Drama 351	5		
*Electives	10		
Total	45	Total	50

2. DRAMA

JUNIOR	Hours	SENIOR	Hours
Science (1)	10	Speech-Drama 360	5
Speech-Drama 336	5	Speech-Drama 329	5
Speech-Drama 387	5	Speech-Drama 361	5
Speech-Drama 334	5	Speech-Drama 562	5
Speech-Drama 335	5	Speech-Drama 591	5
*Electives	15	Speech-Drama 530	5
		*Electives	20
Total	45	Total	50

Suggested electives: *Education* 303, 304, 335, 336, *to complete all requirements for Provisional Teaching Certificate.*

3. SPEECH-DRAMA EDUCATION

JUNIOR	Hours	SENIOR	Hours
Science (1)	10	Education 336	5
Education 303	5	Education 346	5
Education 304	5	Education 347	5
Education 335	5	Education 348	5
Speech-Drama 386 or 387	5	Speech-Drama 360	5
Speech-Drama 334	5	Speech-Drama 530	5
Speech-Drama 310	5	Electives	15
Speech-Drama 591	5		
Speech-Drama 350	5		
Speech-Drama 592	5		
Total	55	Total	45

This curriculum (190 hours) gives the student Professional Teaching Certification.

(1) See Item 8, page 109. Non-laboratory science in either Option 1 or Option 2.

4. Speech Correction

Junior	Hours	Senior	Hours
Psychology 415	5	Psychology 423	5
Psychology 416	5	Education 346	5
Education 303	5	Education 347	5
Education 304	5	Education 348	5
Education 335	5	Speech-Drama 474	5
Education 336	5	Speech-Drama 476	5
Speech-Drama 310	5	Speech-Drama 391 or 392	5
Speech-Drama 412	5	Electives	15
Speech-Drama 470	5		
Speech-Drama 471	5		
Total	50	Total	50

This curriculum (190) hours leads to Professional Teacher Certification and with completion of required Speech Clinic clock hours meets Basic Certification of American Speech and Hearing Association.

DEPARTMENT OF NURSING

Offices:

Main Office—301 Candler Hall, University of Georgia, Athens.

Atlanta Division Office—24 Ivy St., S. E.

Augusta Office—Medical College of Georgia, Eugene Talmadge Memorial Hospital, Augusta.

Mail to be addressed to Head of Department, Main Office.

PROGRAMS

I. Basic Baccalaureate Degree Program: This non-specialization program leading to the Bachelor of Science in Nursing degree prepares professional nurses in curative and preventive phases of nursing for service in civilian hospitals, government nursing service, for rural and urban community health programs.

II. Graduate (Registered) Nurse Baccalaureate Degree Program: This program for the graduate registered nurse leading to the degree of Bachelor of Science in Nursing Education prepares for specialization in the following areas:

A. Instructor in Nursing Arts

B. Clinical Instructor and/or Supervisor of a Clinical Department such as medical, surgical or psychiatric.

C. Instructor of Physical and Biological Sciences in a School of Nursing.

D. Instructor of Social Sciences in a School of Nursing.

III. Centralized Teaching Program: This program has been designed to assist hospital Schools of Nursing in the Atlanta area to more economically and effectively meet the needs of their students in the area of physical, biological and social sciences. The three hospitals participating in this program are the Crawford W. Long, Georgia Baptist, and Piedmont. The instruction is centralized in the Atlanta Division of the University of Georgia and supervised by the Nursing Department.

CURRICULA

Program I. Basic Baccalaureate Degree Program
First five quarters, Athens Campus

	Hours
English 2 x-y	10
Chemistry 21 - 260	10
Physics 20	5
Biological Sciences	15
Human Biology 11 - 12	10
Bacteriology 350	5
Social Sciences	30
History 110 x-y	10
*Political Science 1	5
Sociology 5	5
Psychology 1, 358	10
Home Economics 351	5
Nursing Education	9
Nursing Education 100	3
Nursing Education 110	2
Nursing Education 111	1
Nursing Education 112	3
Physical Education	5

Sixth-fourteenth quarters, Medical College of Georgia
(Eugene Talmadge Memorial Hospital)

Details of the clinical program, including correlated allied and general education courses appears in departmental catalogue.

Program II. Graduate Nurse Baccalaureate Degree Program.

A. Instructor in Nursing Arts

	Hours
Credit allowed for three-year diploma work	29-45
English 2 x-y	10
Speech 8 or 50	5
Mathematics 101x or Nursing Education 1	5
Chemistry 21-22	10
Biological Sciences	15
Human Biology 1-2 or Human Biology 2 and Zoology 25	10
Bacteriology 350	5
Social Sciences	35
Economics 5x	5
History 110x-y	10
Philosophy 399	5
Political Science 1	5
Sociology (to be approved)	10
Psychology (Psychology 1 and two other 5-hour courses)	15
Education	10
Education 304	5
Education or Psychology 415	5

*If validating examination is passed student may be exempt from meeting this requirement. No substitution required.

Nursing Education	35-37
Nursing Education 200 or 323	3
Nursing Education 321	3
Nursing Education 324	3
Nursing Education 325 or 328	3-5
Nursing Education 326	3
Nursing Education 327	5
Nursing Education 346, 347, 348 (in field of major interest)	15
Special courses	0-16
(Where clinical experience is evaluated at less than 45 hours, the deficiency will be covered by specific courses in Nursing Education or allied fields.)	
Physical Education 1-2	10
Total	196

B. Clinical Instructor and/or Supervisor of a Clinical Department such as medical, surgical or psychiatric.

Same as for Program A except that the Nursing Education will include the following:

	Hours
Nursing Education	37
Nursing Education 321	3
Nursing Education 324	3
Nursing Education 325	5
Nursing Education 326	3
Nursing Education 327	5
Nursing Education (to be approved)	3
Nursing Education (to be approved)	5
Nursing Education 346, 347	10

To be eligible for this program the nurse must satisfy the following prerequisite: At least two years of successful experience is required, preferably as assistant clinical instructor or head nurse, or teaching experience in the nursing arts.

C. Instructor of Physical and Biological Sciences in a School of Nursing.

	Hours
Credit allowed for three-year diploma in nursing	29-33
English 2 x-y	10
Speech 8 or 50	5
Mathematics 101x and Pharmacy 1	10
Chemistry	35
Chemistry 21, 22, 23, 340a-b, 380, 451	
Biological Sciences	35
Human Biology 1-2 or Zoology 25-26	10
Zoology (to be approved)	15
Bacteriology 350, 351	10
Physics 20	5
Social Sciences	15
Philosophy 399	5
Political Science 1	5
Sociology	5
Psychology (Psychology 1 and one other 5-hour course)	10
Education 304 and 520	10
Nursing Education	19
Nursing Education 200 or 323	3
Nursing Education 321 or 326	3
Nursing Education 324	3
Nursing Education 327	5
Nursing Education 346	5

Special Courses	0-16
(Where clinical experience is evaluated at less than 45 hours, the deficiency will be covered by specific courses in Nursing Education or allied fields.)	
Physical Education 1-2	10
Total	196

D. Instructor of Social Sciences in a School of Nursing

	Hours
Credit allowed for three-year diploma in nursing	29-45
English 2 x-y	10
Speech 8 or 50	5
Biological Sciences	15
Human Biology 1 and 2 or Human Biology 2 and Zoology 25	10
Bacteriology 350	5
Social Sciences	55
Economics 5x	5
Geography 101	5
History 110x-y	10
Philosophy 399	5
Political Science 1	5
Sociology (to be selected with the counsel of the faculty adviser)	25
Psychology	25
Education	10
Education 304	5
Education 520	5
Nursing Education	22
Nursing Education 200 or 323	3
Nursing Education 321	3
Nursing Education 324	3
Nursing Education 326	3
Nursing Education 327	5
Nursing Education 346	5
Special Courses	0-16
(Where clinical experience is evaluated at less than 45 hours, the deficiency will be covered by specific courses in Nursing Education or allied fields.)	
Physical Education 1-2	10
Total	196

Program III. Centralized Teaching Program
Atlanta Division, Atlanta

Crawford W. Long and Georgia Baptist Hospitals

First Quarter	Hours	Second Quarter	Hours
Biology 1	5	Biology 2	5
Chemistry	N.C.	Microbiology	N.C.
Psychology 1	5	Sociology	5

A total of 20 hours of credit is transferable to the Bachelor of Science in Nursing Education degree from the above two quarters of work.

PIEDMONT HOSPITAL

	Hours		Hours
Biology 11	5	Biology 12	5
Chemistry 1**	5	Bacteriology 350	5
Psychology 1	5	Sociology 5	5

Of the above 30 hours of credit, 25 are transferable to the Bachelor of Science in Nursing Education degree.

EXPENSES

The expenses for the instruction of the nursing students in the University are the same as those of other students, details of which may be found elsewhere in this catalogue.

Basic Baccalaureate degree students may clear more specifically their expenses for the 6-14th quarter by contacting the Department of Nursing.

DEPARTMENTAL ANNOUNCEMENTS

The University reserves the right to withdraw any course for which the registration is not sufficiently large. Courses not listed may be offered should sufficient demand arise and teaching personnel be available.

Unless otherwise indicated all courses meet five hours a week, and carry five hours credit.

ANTHROPOLOGY

(See Sociology and Anthropology)

ART

(Fine Arts Building, North Campus, unless otherwise specified.)

Head: Dodd. Staff: Amos, Breithaupt, Browne, Dieball, *Madden, McCutchen, Pfister, Sanderson, Sellers, Suits, Thomas, Walker, Wescott.

ART STRUCTURE

20. ART STRUCTURE. (Drawing). Four laboratory periods and one lecture. *The Staff.*

An introductory drawing course; landscape, figure, still life. Experience in several mediums. Study of the masters.

30. ART STRUCTURE. (Design). Four laboratory periods and one lecture. *The Staff.*

Organization of the visual elements; line, color, texture, volume and space. (Not open to those credited with Art 1 and 2.)

40. ART STRUCTURE (Nature of Materials). Four laboratory periods and one lecture. Prerequisite: Art 20. *The Staff.*

Experience in the manipulation of various three-dimensional materials, wood, clay, metal and synthetics. A study of the organic quality of materials and the logical treatment and combination of the separate elements to make a new form.

DESIGN

111. DESIGN. Five laboratory periods. Prerequisite: Art 30. *The Staff.*

A study of line, value, shape, color and texture in the creation of two-dimensional design.

211. DESIGN. Five laboratory periods. Prerequisite: Art 111. *The Staff.*

Advanced problems in two-dimensional design. Organization of volumes in space.

220. PHOTOGRAPHIC DESIGN. Prerequisites: Art 30 and 111, and consent of instructor. *Mr. Sanderson.*

Creative design through the use of photography. The student will investigate the experimental possibilities of the entire area of the light sensitive medium.

*On leave.
**Credit not transferable to the B.S. in N.Ed. degree.

DRAWING, PAINTING, AND COMPOSITION

121. Drawing and Composition. Four laboratory periods and one lecture. Prerequisite: Art 20. *The Staff.*
Analyses of the drawings of the great masters. Figure drawing. Composition from nature and perspective concepts.

221. Drawing and Composition. Four laboratory periods and one lecture. Prerequisites: Art 20 and 121. *Mr. Dodd* and *Mr. Suits.*
Picture construction through design and composition.

222. Drawing and Modeling. Four laboratory periods and one lecture. Prerequisite: Art 121. *The Staff.*
Two and three-dimensional research in the anatomical construction of the human figure.

223. Drawing and Painting. Four laboratories and one lecture. Prerequisite: Art 221. *Mr. Dodd* and *Mr. Suits.*
Advanced drawing and painting for Drawing and Painting majors. Open as an elective by permission of the instructor.

231. Painting. Four laboratory periods and one lecture. Prerequisites: Two drawing courses. *Mr. Madden, Mr. Suits,* and *Mr. Thomas.*
Introductory painting. Aesthetic considerations of picture structure.

232. Painting. Four laboratory periods and one lecture. Prerequisite: Art 231. *Mr. Thomas.*
Technical consideration of the preparation of grounds, mediums, and pigments. Analyses of the techniques of the masters. Oil, tempera, and mixed techniques.

233-234. Painting. Four laboratory periods and one lecture each. Prerequisite: Art 232. *Mr. Thomas.*
Advanced painting.

241. Watercolor. Five laboratory periods. Prerequisites: one design and one drawing course. *The Staff.*
Study of the transparent watercolor.

242. Watercolor. Five laboratory periods. Prerequisite: Art 241. *The Staff.*
Continuation of 241 with emphasis upon opaque watercolor (Gouache).

702. Drawing and Composition. Five laboratory periods. Prerequisites: Art 222 and 234. *Mr. Dodd* and *Mr. Thomas.*

703. Drawing and Composition. Five laboratory periods. Prerequisites: Art 702. *Mr. Dodd* and *Mr. Thomas.*

731. Painting. Five laboratory periods. Prerequisites: Art 222 and 234. *Mr. Dodd* and *Mr. Thomas.*

732. Painting. Five laboratory periods. Prerequisite: Art 731. *Mr. Dodd* and *Mr. Thomas.*

800-801. General Art. Five laboratory periods. *Mr. Dodd.*

804. Drawing and Composition. Five laboratory periods. Prerequisite: Art 703. *Mr. Dodd.*

833. Painting. Five laboratory periods. Prerequisite: Art 732. *Mr. Dodd* and *Mr. Thomas.*

ART HISTORY

In the art history courses the student is given an opportunity to become acquainted with the great art of the past as well as that of the present day. Through this study of the historical, social, and economic conditions of the periods producing art, and through analysis, criticism, and interpretation of the masterpieces, the student acquires knowledge of the fundamental motives and structural principles, and also develops a sensitivity to the inherent qualities that make a work of art timeless. The work in art history is closely integrated with the studio work.

281. Ancient and Medieval Art. *Mr. Breithaupt* and *Mr. Walker.*
A survey of sculpture, architecture, painting, and other arts from prehistoric times to the Italian Renaissance.

282. Renaissance Art. *Mr. Breithaupt* and *Mr. Walker.*
A study of art from the Italian Renaissance to the early part of the nineteenth century.

283. Modern Art. *Mr. Breithaupt* and *Mr. Walker.*
A study of art since the middle of the nineteenth century, a survey of contemporary art.

476. History of Hellenic Art. Prerequisite: Art 281, 282, 283, or equivalent and permission of instructor. *Mr. Breithaupt* and *Mr. Walker.*
A specialized study of Hellenic architecture, sculpture, painting, and minor arts of the Archaic, Transitional, Fifth Century, Fourth Century, Alexandrian, and Graeco-Roman periods as well as the important periods of Classical Revival in Europe and America. Both literary and Archaeological sources will be used.

480. Art of the Italian Renaissance. *Mr. Breithaupt* and *Mr. Walker.*
A study of architecture, sculpture, and painting of the fourteenth, fifteenth, and sixteenth centuries in Italy.

481. History of Northern Renaissance Art. Prerequisites: Art 281, 282, 283, or permission of adviser. *Mr. Breithaupt* and *Mr. Walker.*
Historical study of the architecture, sculpture, painting, and minor arts north of the Alps from the waning of the Medieval period to around the beginning of the seventeenth century. The artistic achievements in France, Germany, England, and the Low Countries will be presented against the background of their political, social, and literary accomplishments.

483. Painting of the 19th and 20th Centuries. *Mr. Breithaupt* and *Mr. Walker.*
A study of painting from Cezanne to present day artists in the Western World.

484. Baroque Art. *Mr. Breithaupt* and *Mr. Walker.*
A study of art from the end of the Renaissance to the Industrial Revolution. Emphasis on the history of painting and its relationship to architecture, sculpture, and literature of the period.

486. Art of the Americas. Prerequisites: Art 281, 282, 283, or permission of instructor. *Mr. Breithaupt* and *Mr. Walker.*
The art product of the New World from Pre-Columbian times to the present. The first half of the course will emphasize Latin America; the second half, the United States.

490. Objectives of 20th Century Art. (Not offered 1955-56.)
A consideration of painting and sculpture today against its historical background. A reading seminar related to a course of public lectures.

880-881. Special Problems in History of Art. Seminar. Prerequisites: Graduate standing and permission of faculty. *The Staff.*
A seminar taking in successive years the creative achievements of a given culture such as the Italian Renaissance, the Middle Ages, the Industrial Revolution, etc. Problems of cultural influence on art, of stylistic analysis, or the connoisseurship will be selected for individual research and group presentation and discussion.

ADVERTISING DESIGN AND COMMERCIAL ART

206. Advertising Design I. Four laboratory periods and one lecture. Prerequisites: Art 111, 121, 208 and 210. *Mr. Dieball.*
Visual communication and graphic techniques.

207. Illustration. Four laboratory periods and one lecture. Prerequisites: Art 206, 221, and 231 or 241. *Mr. Dieball.*
Application of drawing, painting, and design experiences to the field of illustration. Experimentation with various mediums and techniques. Study of reproduction methods.

208. Advertising Layout. Three laboratory periods and two lectures. *Mr. Dieball.*
Fundamentals of color, design, typography, and reproduction related to modern advertising problems. Layout of newspaper, magazine, and direct-mail advertising.

209. Advertising Design II. Four laboratory periods and one lecture. Prerequisites: Art 206, 210, and 231 or 241. *Mr. Dieball.*
Continuation of Art 206. Advanced problems in advertising design including preparation of layouts, comprehensive and finished art, study of production problems.

210. Lettering. Four laboratory periods and one lecture. Prerequisite: Art 30. *Mr. Dieball.*

Principles of lettering and letter construction with experience in lettering as used and reproduced today. Study of typography in relation to lettering and advertising design.

CRAFTS

151. Crafts. Five laboratory periods. Prerequisite: Art 30 or 111. *Mr. Sanderson.* (Not offered in 1955-56)

Metal work, jewelry, weaving, textile printing, and wood work. An elective for students in other departments.

250. Weaving. Five laboratory periods. Prerequisites: Art 30 or 255. *Mr. Sanderson.*

Hand-weaving designed for contemporary living. Experience in drapery, upholstery, and suiting with emphasis on color and texture.

251. Textile Design and Printing. Five laboratory periods. Prerequisites: Art 30 and 111. *Mr. Sanderson.*

A course in designing and producing contemporary fabrics by silk screen method.

252. Jewelry and Metal Work. Five laboratory periods. Prerequisites: Art 30, 40, and 111. *Mr. Sanderson.*

A thorough grounding in the techniques necessary to execute well-designed objects in metal; including forming, chain-making, chasing, repousse, stone setting, tool making, metal finishing, enameling, and centrifugal casting.

255-256. Crafts. 3 hours each. Three laboratory periods. Prerequisite: Art 30. *Mr. Sanderson.*

Introductory course in weaving, tie and dye, and batik.

550. Textile Design and Printing. Prerequisites: Two Senior Art Division Art courses including Art 250, and approval of instructor. *Mr. Sanderson.*

An exploration into the creative potentialities of silk screen designing and printing methods, making use of film stencil, tusche, block-out, and photo stencil methods.

552. Jewelry and Metal Work. Prerequisites: Two Senior Division art courses including Art 252, and instructor's approval. *Mr. Sanderson.*

An advanced course in design and fabrication in metal. Creative sculptural use of metal as applied to the human module, whether decorative or functional. Exploration in centrifugal casting, alloying, raising, chasing, lapidary, plating, and allied techniques.

CERAMICS

160. Pottery. Five laboratory periods. *Miss Amos, Mr. McCutchen,* and *Mr. Sellers.*

Form, proportion, and simple ornament as related to pottery shapes. Laboratory exercises and related lectures in handbuilding pottery. No previous art experience is required.

261. Pottery. Four laboratory periods and one lecture. Prerequisite: Art 160, 161 or 265. *Miss Amos* and *Mr. McCutchen.*

Laboratory exercises and related lectures in the use of the potter's wheel. Examination of pottery in relation to other art processes.

262. Ceramic Decorative Processes. Four laboratory periods and one lecture. Prerequisite: Art 261. *Miss Amos* and *Mr. McCutchen.*

The ceramic of past civilizations is examined to understand better the forming processes, decorative techniques, and artistic standards in pottery making. The adaptation of these techniques applied to the laboratory as a basis for individual experimentation by the student.

263. Ceramic Calculations. Two laboratory periods and three lectures. Prerequisites: Chemistry 21-22 and Art 261. *Miss Amos* and *Mr. McCutchen.*

The chemistry and arithmetic of glazed formulas, composition, and computations studied from the standpoint of technical and artistic points of view.

265. Pottery. 3 hours. Three laboratory periods. *Miss Amos* and *Mr. McCutchen.*

An elementary course in pottery. Laboratory experiences in forming, firing, and glazing ceramic wares.

266. Ceramic Glazes. Four laboratory periods and one lecture. Prerequisite: Art 263. *Mr. McCutchen.*
Continuation of Art 263. Emphasis on the adaptation of the fundamentals of glaze behavior to decorative and forming processes.

267. Ceramic Problems. Five laboratory periods. Prerequisite: Art 266. *Mr. McCutchen.*
Course for advanced students in ceramics who have sufficient background and technical knowledge to carry on independent projects. Problems combining research in design and ceramic technology are selected in consultation with the instructor.

268. Ceramic Problems. Five laboratory periods. *Mr. McCutchen.*
Continuation of Art 267.

560. Advanced Ceramic Design. Five laboratory periods. Prerequisites: Art 267 and 268. *Miss Amos* and *Mr. McCutchen.*
Individual development in the use of the materials and processes of the ceramic designer. Emphasis on the functional and aesthetic requirements of form and ornament in contemporary ceramics.

561. Historical Processes in Ceramics. Five laboratory periods. Prerequisites: Art 267 and 268. *Miss Amos* and *Mr. McCutchen.*
Individual research into ceramics of the past and adaptation of knowledge to technical and aesthetic solutions of contemporary problems.

SCULPTURE

270. Sculpture. Five laboratory periods. Prerequisites: Art 20 and 121. *The Staff.*
Fundamentals of three-dimensional design. Figure, animal, and abstract modeling. Analyses of great sculpture. Casting and patinas.

271. Sculpture. Five laboratory periods. Prerequisite: Art 270. *The Staff.*
Individual problems for advanced students. Stone, wood, and metal.

ART EDUCATION

100. The Visual Arts. Five laboratory periods. *Miss Browne, Mr. Pfister, Mr. Sellers,* and *the Staff.*
Based upon the art needs of youth, the course will deal with socially useful and personally enriching arts. Studio work, films, excursions, gallery visits, readings, discussions and reports.

504. The Visual Arts in Communication. Prerequisites: Two senior division courses in art, and consent of instructor. *Mr. Dieball.*
Through creative work, the student will learn to make aesthetic use of three elements—lettering, organization of plastic patterns, and the nature of a technical process—integrated about a purpose, namely, communication.

513. Crafts. Five laboratory periods. *Miss Amos.*
The course develops ability to design three-dimensionally in terms of material, process, and use. According to the needs of individual students, work is done in clay modeling, puppetry, papier mache, textile printing, simple weaving, and loom construction. Use of native materials is stressed. Students have contact with craft programs for children. The course is planned to meet the needs of teachers.

514. Drawing and Painting. Five laboratory periods. *Miss Browne.*
Students in this course relate their own work in drawing, pictorial composition, color, and technique to the problems of teaching painting. Through readings, discussions and visits, students study the role of art experience as a means of personal development. Emphasis is placed upon the relationship of art to curricular patterns of the public schools.

515. Design. Five laboratory periods. *Miss Browne* and *Mr. Pfister.*
The purpose of the course is two-fold: (1) to deepen and broaden the design sense of students; (2) to help them develop means of teaching design as fundamental to every art activity. In accordance with the needs of students in the class, the course deals with problems of teaching at various age levels.

516. Modeling and Carving. Five laboratory periods. *Miss Amos.*
Three-dimensional design with materials readily available to teachers.

523. Materials and Design. Five laboratory periods. *The Staff.* (Scheduled only with consent of adviser.)
An advanced course offering opportunity to work in one or more of the following fields: pottery, weaving, silk-screen printing, metal working.

536. Teaching of Art in the Secondary School. Prerequisites: Two senior division courses in education, two senior division courses in art, and consent of instructor. *Miss Browne.*

A course for advanced students in art education, supervisors, and administrators. Based upon teaching problems encountered by members of the group, the course will deal with planning, guiding, and evaluating art experiences that meet adolescent and societal needs within various types of curricular patterns.

539. Supervision of Art. Prerequisites: Four courses in Education; four advanced courses in Art; and consent of instructor. *Miss Browne* and *the Staff.*

Problems deal with the development and administration of an art program to meet needs of pupils and community.

540. Art Activities in the Elementary School. *Miss Amos, Miss Browne, Mr. Pfister,* and *Mr. Sellers.*

Students in this course relate their own creative work in painting, designing, and constructing to the teaching of art.

570. Organic Design in Contemporary Living. Prerequisites: Two Senior Division courses in Education, two senior Division courses in Art, and consent of instructor. *Miss Browne* and *the Staff.*

A course for advanced students in designing in terms of space, movement, and light. Abstract problems and those centered directly in life today are explored.

921. Laboratory in Applied Art Education. Prerequisites: Four courses in Education, advanced standing in art, and consent of instructor. *Miss Browne* and *the Staff.*

This course is designed to provide opportunities for advanced students to undertake functional studies of topics or problems in Art Education significantly related to their professional tasks.

INTERIOR DESIGN

290. Interior Design. *Mr. Wescott.*

A study of architecture, concepts of interior space, the great periods of furniture design and allied crafts, as a background for comparison with contemporary architecture, furniture, new materials, methods of manufacture, and present day needs.

387. Interior Design. Five laboratory periods. Prerequisite: Art 111. *Mr. Wescott.*

Shop practice in the problems of interior design. A practical application of the theories of color and light as they relate to interiors and furnishings. Practical work in preparing paints and colors for walls, wood finishing, drapery construction. Use of new materials in accessories.

389. Interior Design. Four laboratory periods and one lecture. Prerequisites: Landscape Architecture 55. *Mr. Wescott.*

Drawing and rendering of plans and elevations; measuring and scaling of interiors and furnishings; creative problems in the treatment of interior space, arrangement of furnishings on a basis of design and function.

390. Interior Design. Four laboratory periods and one lecture. Prerequisites: Landscape Architecture 55 and Art 389. *Mr. Wescott.*

Creative problems in the designing of chairs, tables, case goods, and accessories. Lectures on design, contemporary materials, and methods of construction.

391. Interior Design. Four laboratory periods and one lecture. Prerequisites: Landscape Architecture 55 and Art 390. *Mr. Wescott.*

Individual and group projects in planning or remodeling and furnishing of domestic interiors, or commercial interiors. Emphasis on the creative approach and conception of the problem as a whole. Each problem carried through with complete plans, evaluations, specifications, and perspective renderings.

TECHNICAL PROBLEMS

200. Technical Problems. Five laboratory periods. *The Staff.*

A special course for students qualified to carry out individual projects in design, crafts, drawing, painting, sculpture, or ceramics. Work is done independently of the regularly scheduled classes. Scheduling of this course must be approved by the Head of the Department of Art.

ASTRONOMY

(See Physics and Astronomy)

BACTERIOLOGY*

(Baldwin Hall, North Campus; Conner Hall, South Campus; Veterinary Building, South Campus.) (See also each course announcement.)

Head: Burkholder. Staff: Bennett, Boyd, Burkhart, Foster, Giddens, Goldschmidt, Kleckner, Powers, VanEseltine.

For informaiton on additional courses in this and related fields see announcements of the School of Veterinary Medicine and College of Agriculture.

350. Introductory Microbiology. Three lectures and two double laboratory periods. Prerequisites: 10 hours of biological science, 5 hours of physical science, Chemistry 260 or 340a, or concurrently. Baldwin Hall. *Mr. Boyd, Mr. Burkhart, Mr. Burkholder,* and *the Staff.*

A survey of microorganisms with special emphasis on bacteria and their relationship to man.

352. Microbiology and Disease. 3 hours. Three lectures or recitations weekly. Prerequisite: Bacteriology 350. Baldwin Hall. *Mr. Burkholder.*

Distribution and nature of specific pathogens; mechanisms of transmission, pathogenesis and defense; means of control or prevention.

380. Introductory Veterinary Microbiology. Three lectures and three double laboratory periods. Prerequisites: First year veterinary curriculum. Other qualified students by arrangement with the head of the department. *Mr. VanEseltine.*

Covers the fundamental principles and techniques of the science of microbiology.

389. Dairy Microbiology. Three lectures or recitations and two double laboratory periods weekly. Prerequisite: Bacteriology 350. Dairy Building. *Mr. Bennett.*

Determination of numbers and types of bacteria; use of microorganisms in the manufacture of dairy products; study of milk fermentation and disease-producing organisms sometimes occurring in milk.

395. Microbiology of Foods. Two lectures or recitations and three double laboratory periods weekly. Prerequisite: Bacteriology 350. Baldwin Hall. *Mr. Powers* and *Staff.*

Deals with microorganisms in natural and processed foods; their origin, nature, and effects on foods; enumeration; relations to health.

409. Fundamentals of Microbiology. Two lectures or recitations and three double laboratory periods weekly. Prerequisite: Bacteriology 350. Baldwin Hall. *Mr. Burkholder* and *Staff.*

Fundamental principles and techniques of general microbiology. Attention will be given to growth, nutrition, inheritance and ecology of representative types of microorganisms.

410. Immunology. Three lectures or recitations and three double laboratory periods weekly. Prerequisite: Bacteriology 409 and Chemistry 451, or equivalent. Veterinary Building. *Mr. Foster.*

Mechanisms of infection and host resistance; principles and techniques of serology.

411. Microbiology of Market Milk and Ice Cream. Prerequisite: Dairy Bacteriology 389, Chemistry 260 or 340a. Dairy Building. *Mr. Bennett.*

Microorganisms found in market milk, ice cream and related products and their relationship to spoilage of the products and to epidemiology.

412. Microbiology of Butter, Cheese and Cultured Milks. Prerequisite: Dairy Bacteriology 389, Chemistry 340a or 260. Dairy Building. *Mr. Bennett.*

Metabolic changes resulting from the growth of microorganisms occurring in milk and cream intended for manufacturing dairy products and in butter, cheese, and cultured milks; bacteriophage affecting microorganisms.

421. Microbial Food Analysis. Prerequisite: Food Technology 414. One lecture and two 4-hour laboratories. *Mr. Powers* and *Mr. Pratt.*

Microbiological, physical, and mathematical considerations involved in determining thermal death times, rates of heat penetration, and in calculating the lethality of processes will be studied with particular reference to spore-forming anaerobes. Isolation, enumeration, and factors affecting sporogenesis, dormancy, and sphere germi-

*Students may be held responsible for breakage in laboratory courses.

nation will be studied. The General Method, Ball's Method, and the newer concepts of process calculation will be compared.

422. Pathogenic Bacteriology. Three lectures and two double laboratory periods. Prerequisites: Bacteriology 410. Veterinary Building. *Mr. VanEseltine.*

Studies on the morphological, cultural and physiological properties of pathogenic bacteria, and their relation to health and diseases are emphasized.

423-424. Veterinary Microbiology. 10 hours. Three lectures and three double laboratory periods each quarter. Prerequisites: Second year veterinary curriculum. Other qualified students by arrangement with the head of the department. *Mr. Foster, Mr. Kleckner,* and *Mr. VanEseltine.*

Studies on the mechanisms of infection and host resistance, and the properties of the important bacterial, mycotic and viral agents of disease in domestic animals and poultry.

450. Virology. Three lectures and three double laboratory periods. Prerequisite: Bacteriology 410. Veterinary Building. *Mr. Kleckner.*

An introduction to the viruses and rickettsiae; principles and methodology.

461. Microbiology of Soils. Three lectures or recitations and two double laboratory periods weekly. Prerequisites: Bacteriology 350; Agronomy 458, or consent of the instructor. Baldwin Hall. *Mr. Giddens* and *Staff.*

A survey of the microorganisms occurring in the soil; their activities and effects on soils and crops; factors affecting them; enumeration.

816. Seminar in Microbiology. One hour per week, maximum three quarters. Available to majors in bacteriology, zoology, plant sciences, agriculture, with two courses in bacteriology as prerequisite. Baldwin Hall.

Meetings for discussion of research and new developments in the field.

820. Advanced Microbiology. Prerequisite: Bacteriology 623-624 or 622 and 650. Veterinary Building. *Mr. Kleckner* and *Staff.*

A detailed study of the animal pathogens and their relationship to diseases.

860. Physiology of Bacteria. Five double periods. Prerequisites: Bacteriology 350, 409; Chemistry 451, or equivalent. Baldwin Hall. *Mr. Goldschmidt* and *Staff.*

Survey of the physiology and metabolism of microorganisms.

900. Problems in Bacteriology. Maximum credit of 10 hours. Must be preceded by at least two graduate courses in bacteriology. *The Staff.*

This course allows students to pursue intensive study under the direction of staff members, on approved problems in medical, agricultural, marine, and general microbiology.

BIOLOGICAL SCIENCES

Bacteriology—see page 134
Botany—see page 135
Entomology—see page 146
Zoology—see page 184

BOTANY*

(Baldwin Hall, North Campus)

Head: Westfall. Staff: Beck, Carlton, Duncan, Jacobs, Wilson.

10. Plant Biology and Man. No credit will be allowed for Botany 10 if credit is shown for Botany 21. Five one-hour periods.

Basic studies of life, employing a variety of plant materials and emphasizing the relationship of structures and processes to the welfare of man.

11. Plant Biology and Man (continued). No credit will be allowed for Botany 11 if credit is shown for Botany 22. Five one-hour periods.

A study of the reproduction, heredity, evolution, and environmental relationships of representative groups of plants, emphasizing economic and cultural applications.

*Students may be held responsible for breakage in laboratory courses.

21. Elementary Botany. Not open to students who have credit for Botany 10. Three one-hour lecture periods and two two-hour laboratory periods. *Mr. Carlton* and *the Staff.*

A study of (a) the structure of leaves, stems, and roots; (b) growth and nutritive processes of plants; and (c) the relations of plants to their environment.

22. Elementary Botany (continued). Not open to students who have credit for Botany 11. Three one-hour lecture periods and two two-hour laboratory periods. *Mr. Carlton* and *the Staff.*

A study of reproduction, variation, heredity, and evolution of seed plants, with studies of representatives of other major plant groups and their importance.

305. Identification of Flowering Plants. Five double laboratory periods or field trips, outdoors when possible. Attendance on scheduled all-day or longer trips to mountains, coastal islands, etc. may be substituted for an appropriate number of regular sessions. Prerequisites: None, except that the course is not open to freshmen without the consent of the instructor.

Studies in the identification of plants with emphasis on wild flowers.

306. Identification of Trees and Shrubs. Three two-hour periods each week plus three full-day trips as scheduled. Prerequisites: Permission of instructor.

Studies in the identification of trees and shrubs.

323. Elementary Plant Anatomy. Five two-hour laboratory periods. Prerequisites: Botany 21-22 or Botany 10-11.

The origin and development of the organs and tissue systems of vascular plants, and a comparative study of the structure of roots, stems, leaves, flowers, and fruits.

358. Methods in Plant Histology. Five double laboratory periods. Prerequisites: Botany 21-22 or Botany 10-11.

Principles and methods of killing, fixing, embedding, sectioning, staining, and mounting plant materials for microscopic study.

375. Plant Ecology. Five double laboratory-discussion periods and field trips. Prerequisites: Botany 21-22 or Botany 10-11.

The relation of plants and plant communities to the environment in which they grow.

380. Plant Physiology. Five double laboratory periods. Prerequisites: Botany 21-22 or Botany 10-11.

A survey of physiological processes occurring in economic plants and the conditions which effect these processes.

428. Morphology of Thallophytes. Five one-hour laboratory-discussion periods. Prerequisites: Botany 21-22 or Botany 10-11 and two senior division courses in plant sciences.

An introductory study of the structure and reproduction of thallophytes with emphasis on the algae and comparative studies of algae with representative fungi. Collection and identification are included.

471. Taxonomy of Seed Plants. Five double laboratory periods. Prerequisites: Botany 305 and any other senior division course in botany or approved course in plant pathology, forestry, or geography.

A study of the concepts and system of classification, problems of nomenclature, and the taxonomy of specialized groups.

472. Taxonomy of Seed Plants (continued). Two lectures and three double laboratory periods. Prerequisite: Botany 471.

A continuation of Botany 471.

473. Identification of Grasses. Five double laboratory periods. Prerequisites: Botany 10-11 or Botany 21-22 and two senior division courses in botany or approved courses in other plant sciences.

Studies in the identification and classification of grasses with emphasis on structure and ecology. Numerous economically important species are included.

476. Vegetation of North America. Four lectures and one two-hour laboratory period. Prerequisites: Botany 21-22 or Botany 10-11, Botany 375, and one other senior division course in geology and geography.

A study of the past and present distribution of the major vegetation types in North America together with the analysis of the factors affecting this distribution. A study of indicator plants and land utilization is included.

482. Nutrition of Green Plants. Two lectures and three double laboratory periods. Botany 323 and 380.

A study of the nutrition of the higher plants, including major and minor elements and deficiency symptoms.

483. Advanced Plant Physiology. Five double laboratory periods. Prerequisites: Botany 380 and any other senior division course in botany, chemistry, or plant pathology.

An evaluation of accepted concepts in plant physiology with special attention to the methods employed in arriving at these concepts.

520. Field and Laboratory Botany. Two lectures and three double laboratory periods and special field trips. Prerequisites: Botany 21-22 or equivalent and two senior division courses in botany or education.

A course in field botany designed especially for teachers. Particular emphasis is placed upon the identification of local flowering plants and ferns, and upon the selection and use of materials for correlating the study of plants with other subjects.

522. Advanced Field and Laboratory Botany. Two lectures and three double laboratory periods and special field trips. Prerequisite: Botany 520.

A second course primarily for teachers, emphasizing plant identification, environmental relationships, and plant distribution.

802 and 804. Problems in Botany. 5 hours for each course. Under this heading work may be pursued under the direction of staff members in plant anatomy, plant ecology, plant morphology, plant physiology, plant taxonomy, or mycology. Prerequisites: two senior division courses in botany or approved courses in agriculture, geography, or forestry.

831. Morphology of Seed Plants. Five double laboratory periods. Prerequisites: Botany 323 and one other senior division course in botany or plant pathology.

Critical studies of representative seed plants, considering their development and relationships.

877. Ecological Anatomy. Three lectures and two two-hour laboratory periods. Prerequisites: Botany 21-22 or Botany 10-11, and two senior division plant science courses.

A study of relationships between plant structure and environment, including a detailed ecological classification of plants together with microscopic examination of the structure of representative examples of each type discussed and a consideration of genetic and somatic adaptations.

880, 881, 882, 883, and 884. Botany Seminar. One hour credit each quarter. Weekly meetings. Prerequisites: Undergraduate major in botany or related sciences.

Meetings of graduate students and faculty to discuss recent literature and problems under investigation.

CHEMISTRY*

(Terrell Hall or Chemistry Annex, North Campus; Conner Hall, South Campus)

Head: Scott. Staff: Brockman, Buess, Coggin, Gifford, McRorie, Philbrook, Spell, Waggoner, Whitehead, Wilder.

INORGANIC CHEMISTRY

21, 22. General Chemistry. Four lectures or recitations and one laboratory period per week each quarter. Breakage deposit, $5 for each course. *The Staff* and *Assistants.*

The first course covers the chemistry of the non-metallic elements, including a systematic treatment of chemical principles and their applications. The second course is a continuation of the first, including a general survey of the metallic elements.

370, 371. Industrial Chemistry. Five lectures per week each quarter. Prerequisites: 370—Chemistry 22 and one other chemistry course with laboratory; 371—Chemistry 260 or equivalent. *Mr. Brockman.*

370 covers important chemical processes and recent developments in various inorganic chemical industries. 371 deals with the important chemical processes and recent developments in various organic chemical industries.

*Students may be held responsible for breakage in laboratory courses.

420, 421, 424. Advanced Inorganic Chemistry. Five lectures or recitations per week each quarter. Prerequisites: 420—Chemistry 22 and two other chemistry courses with laboratory; 421, 424—Chemistry 23 and one other chemistry course with laboratory. *Mr. Brockman, Mr. Waggoner,* or *Mr. Whitehead.*

These courses comprise a comprehensive treatment of atomic structure, molecular structure and theories of valence; the second course emphasizes the periodicity of the chemical properties of the elements; the third course deals with the winning of the metals from their ores.

522. Advanced Inorganic Preparation. One lecture and four laboratory periods. Prerequisites: Chemistry 22 and two other chemistry courses with laboratory. Breakage deposit, $5. *Mr. Brockman.*

Selected syntheses of inorganic compounds.

ANALYTICAL CHEMISTRY

23(223). Qualitative Inorganic Analysis. Two lectures or recitations and three laboratory periods. Prerequisite: Chemistry 22. Breakage deposit, $5. *Mr. Spell, Mr. Waggoner, Mr. Whitehead, Mr. Wilder,* and *Assistants.*

The fundamental theories of qualitative analysis and analyses of common cations and anions by semi-micro methods.

380. Quantitative Inorganic Chemistry. Two lectures and three laboratory periods. Prerequisite: Chemistry 23. Breakage deposit, $5. *Mr. Spell, Mr. Whitehead,* and *Assistants.*

The fundamental theories of quantitative analysis and typical analyses involving volumetric and gravimetric methods.

480, 482. Advanced Quantitative Analysis. One or two lectures and four or three laboratory periods per week each quarter. Prerequisites: 480—Chemistry 380; 482—Chemistry 480 or 481. Breakage deposit, $10 ($5 each quarter). *Mr. Spell, Mr. Whitehead,* and *Assistants.*

These courses cover more advanced work in quantitative analyses. They include systematic analyses, organic precipitants, potentiometric methods, electrolytic analyses, and microscopic methods.

481. Commercial Analysis. One or two lectures and four or three laboratory periods respectively. Prerequisites: Chemistry 380 and 340a-b. Breakage deposit, $5. *Mr. Spell, Mr. Whitehead,* and *Assistant.*

Qualitative and quantitative analyses of water, alcohols, sugars, nitrogen compounds, saponifiable oils and hydrocarbon products, using standard commercial methods. The theoretical basis of each method is given.

483h, 484h. Instrumental Methods of Analysis. 3 hours each quarter One lecture and two laboratory periods. Prerequisites: Chemistry 380 and one year of physics. Breakage deposit, $5. *Mr. Spell* and *Assistant.*

These courses cover the use of special instruments for analysis. These include refractometers, electrophotometers, spectrophotometers, polarograph, and electrical instruments.

AGRICULTURAL AND BIOCHEMISTRY

260. Agricultural Chemistry. Four lectures or recitations and one laboratory period. Prerequisite: Chemistry 22, or with consent of Head of Department. Breakage deposit, $5. Conner Hall. *Mr. Buess, Mr. Coggin, Mr. Philbrook, Mr. Wilder,* and *Assistants.*

A brief terminal introduction to aliphatic organic chemistry with material of especial interest to students of Agriculture, Home Economics and Forestry.

261h. Agricultural Chemistry. 3 hours. Two lectures or recitations and one laboratory period. Prerequisite: Chemistry 260. (This course will not satisfy the University of Georgia requirements of organic chemistry for premedical students.) Breakage deposit, $5. *Mr. Buess, Mr. Coggin, Mr. Philbrook, Mr. Scott,* or *Mr. Wilder.*

Special topics in the field of organic chemistry, especially designed for students of Pre-veterinary Medicine.

451. Physiological Chemistry. Four lectures or recitations and one laboratory period. Prerequisites: 451—Chemistry 260 and a course in Botany or Biology or Zoology or Animal Husbandry or Poultry Husbandry. Breakage deposit, $5. Conner Hall. *Mr. Coggin* and *Mr. McRorie.*

Fundamental principles of physiological chemistry in the animal body, including the chemistry of foods, digestion, metabolism and excretions.

560-561. Agricultural Quantitative Analysis. One lecture or recitation and four laboratory periods per week each quarter. Prerequisites: 560—Chemistry 380; 561—Chemistry 560. Breakage deposit, $5 for each course. Conner Hall. *Mr. Wilder.*

Analysis of dairy products; feeds and feedstuffs; fertilizers, and insecticides; methods of soil and water analysis.

568. Microchemical Analysis of Soils. Five lectures, recitations, or laboratory periods. Prerequisites: Chemistry 260 and Agronomy 10. Breakage deposit, $5. Conner Hall. *Mr. Wilder* or *Mr. Giddens.*

Methods of soil sampling and tests employed for the determination of some water soluble cations and anions most frequently found in soils.

849. Introduction to Research (Biochemical). One lecture and four library or laboratory periods. Prerequisite: Chemistry 451 or 452. Breakage deposit, $5. Conner Hall. *Mr. Coggin* or *Mr. McRorie.*

An introduction to the literature of chemistry, research procedures and directions which can be found in original articles.

852. Physiological Chemistry. Four lectures or recitations and one laboratory period. Prerequisite: Chemistry 451. Breakage deposit, $5. Conner Hall. *Mr. Coggin* or *Mr. McRorie.*

The metabolism of carbohydrates, lipids and proteins.

853. Phytochemistry. Four lectures or recitations and one laboratory period. Prerequisites: Chemistry 261h or 340b, and one course in Botany. Breakage deposit, $5. Conner Hall. *Mr. Coggin* or *Mr. McRorie.*

A study of the compounds and chemical principles encountered in plants.

ORGANIC CHEMISTRY

340 a-b. Organic Chemistry. 10 hours. Three or four lectures or recitations and one or two laboratory periods each quarter. Prerequisite: A grade of 70 or better in Chemistry 21, 22. Breakage deposit, $10 ($5 each quarter). *Mr. Buess, Mr. Coggin, Mr. Philbrook, Mr. Scott,* and *Assistants.*

Chemistry 340a. The aliphatic hydrocarbons and their derivatives.
Chemistry 340b. A continuation of 340a and a treatment of the coal tar compounds.

440. Advanced Organic Preparations. One consultation and four laboratory periods. Prerequisite: A grade of 80 or better in Chemistry 340a-b. Breakage deposit, $5. *Mr. Buess, Mr. Scott,* and *Mr. Philbrook.*

Selected syntheses, such as Grignard, Friedel and Craft; acetoacetic ester and others; also oxidations, reductions, and condensations.

441. Organic Qualitative Analysis. One consultation and four laboratory periods. Prerequisite: Chemistry 440. Breakage deposit, $5. *Mr. Buess, Mr. Scott,* and *Mr. Philbrook.*

Identification of pure organic compounds and of mixtures.

445h. Advanced Organic Chemistry. 3 hours each quarter. Three lectures or recitations. Prerequisite: Chemistry 340b. *Mr. Buess* or *Mr. Philbrook.*

An advanced treatment of organic chemistry with special emphasis on structure and the mechanics of reactions.

830h, 831h, 843h, 846h, 847h. Special Topics in Organic Chemistry. 3 hours each quarter. Three lectures or recitations. Prerequisite: Chemistry 340b. *Mr. Buess, Mr. Philbrook,* or *Mr. Scott.*

These courses deal with special topics in organic chemistry such as stereochemistry(830h), organic compounds of nitrogen(831h), alicyclic compound(843h), organo-metallic compounds(846h), heterocyclic compounds(847h).

842. Organic Quantitative Analysis. One consultation and four laboratory periods. Prerequisites: Chemistry 441 and 380. Breakage deposit, $5. *Mr. Spell.*

Quantitative analysis of organic compounds for carbon, hydrogen, oxygen, and nitrogen by combustion; the determination of halogens and sulfur by the bomb method. Both macro and micro methods are available.

844h. Physical Methods in Organic Chemistry. 3 hours. One lecture and two laboratory periods. Prerequisites: Chemistry 340a-b, 490a-b, and 440, or 522. Breakage deposit, $5. *Mr. Philbrook.*

The application of special topics in physical chemistry, such as drying, melting point theory, boiling point theory, distillation, extraction, crystallization, and absorption spectrophotometry, to the practice of Organic Chemistry.

848h. Advanced Organic Chemistry. 3 hours each quarter. Three lectures or recitations. Prerequisite: Chemistry 445h or equivalent. *Mr. Buess* or *Mr. Philbrook.*

An advanced treatment of organic chemistry with special emphasis on reaction mechanisms and modern organic theory.

PHYSICAL CHEMISTRY

390. Elements of Physical Chemistry. Five lectures or recitations. Prerequisites: Chemistry 23, 340a or 260. Breakage deposit, $5. *Mr. Philbrook* and *Mr. Whitehead.*

A brief introduction to physical chemistry, designed primarily for pre-medical students.

400. Colloid Chemistry. Three lectures and two laboratory periods. Prerequisites: Chemistry 390 and 340a or 260. Breakage deposit, $5. *Mr. Whitehead.*

Fundamental theories of colloid chemistry with typical laboratory experiments.

490 a-b-c. Physical Chemistry. 15 hours. Three or four lectures or recitations and one or two laboratory periods. Prerequisites: Chemistry 380, 340a or 260, and Mathematics 355. Breakage deposit, $15 ($5 for each quarter. *Mr. Philbrook.*

A three quarter course in the fundamental principles of physical chemistry and typical laboratory experiments.

RESEARCH AND THESIS

349. Introduction to Research. (Field to be inserted). One lecture and four library or laboratory periods. Prerequisites: 441 or 480 or 481 or 490c or 522. Breakage deposit, $5. *The Graduate Staff.*

An introduction to the literature of chemistry, research procedures, and directions which can be found only in original articles.

810. Chemical Seminar. No academic credit. *The Staff.*

849. Introduction to Research. (Field to be inserted). One lecture and four library or laboratory periods. Prerequisites: 441 or 480 or 481 or 490c or 522. Breakage deposit, $5. *The Graduate Staff.*

An introduction to the literature of chemistry, research procedures, and directions which can be found only in original articles.

990. Laboratory Research in Chemistry. (Field to be inserted). 5 to 50 hours. Prerequisite: Chemistry 849. Breakage deposit, $5 per five hours credit. *The Graduate Staff.*

930. Thesis in Chemistry. 5 to 50 hours. *The Graduate Staff.*

CLASSICS

(Robert E. Park Hall, North Campus)

Head: Alexander. Staff: Wolverton

CLASSICAL CULTURE

All courses in this section are given in English translation.

301x. Classical Culture: Greece. *Mr. Alexander.*

A study of the characteristics of Greek culture, made principally through translations of selections from Greek authors.

301y. Classical Culture: Rome. *Mr. Wolverton.*
A study of the characteristics of Latin culture, made principally through translations of selections from Latin authors.

354. The Greek Romance. *Mr. Alexander.* (Offered in alternate years).
Study of the Greek prose romantic narratives; emphasis placed on the influence of the Greek romance on medieval literature and the development of the novel.

356. Homer and the Epic Tradition. *Mr. Alexander.* (Offered in alternate years.)
A detailed study of Homer and his influence in later European literature.

357. Classical Drama. *Mr. Alexander.* (Offered in alternate years).
Selected plays of Aeschylus, Sophocles, and Euripides, studied through their influence on later European literatures.

358. Roman Literature in Translation. *Mr. Wolverton.*
Detailed study of selected Latin authors with special emphasis on biography as a literary type.

801. Greek Civilization. Prerequisite: ten hours of approved advanced courses in classics, modern languages, or literature; no knowledge of Greek required. *Mr. Alexander.*
A survey of Greek civilization studied through literature in translation. Research problems in special subjects.

802. Roman Civilization. Prerequisite: ten hours of approved advanced courses in classics, modern languages, or literature; no knowledge of Latin required. *Mr. Alexander.*
A survey of Roman civilization studied through literature in translation. Research problems in special subjects.

GREEK

Freshmen may elect the three introductory courses to Greek.

201-202. Elementary Greek. *Mr. Alexander.*
A double course meeting for two quarters in the elements of the Greek language; study of Greek history, geography, and social customs.

203. Readings in Greek. Prerequisites: Greek 201 and 202. *Mr. Alexander.*
Selected readings from Greek authors.

304. Homer. Prerequisites: Greek 201, 202, and 203 or equivalent. *Mr. Alexander.*
Detailed study of selections from the Iliad or the Odyssey.

LATIN

Freshmen may elect the three introductory courses in Latin. Students continuing Latin begun in high school will be placed in the appropriate course on the basis of placement tests and other pertinent information.

201-202. Elementary Latin. *Mr. Wolverton.*
A double course meeting for two quarters in the elements of the Latin language.

203. Intermediate Latin. Prerequisites: Latin 201 and 202 or two high school units in Latin. *Mr. Wolverton.*
Selected reading from standard Latin authors; drill on forms and syntax.

304. Readings in Latin. Prerequisite: Latin 203 or equivalent. *Mr. Wolverton.*
Selected readings from standard Latin authors. Grammar, drill, and review.

DRAMA

(See Speech and Drama)

ECONOMICS

5x. Principles of Economics. *The Staff.*

Description and analysis of the economic organization of modern society with a brief introduction to the theory of value and distribution.

This course is required of all students in the College of Business Administration and A.B. majors in Economics. It is elective as a social science for all other students and may be taken without 5y.

5y. Problems of Economics. Prerequisite: Economics 5x. *The Staff.*

Economics problems based upon the principles studied in Economics 5x.

This course is required of all students in the College of Business Administration and A.B. majors in Economics.

These two courses (5x and 5y) are prerequisite to all advanced courses in economics and business administration, except by special permission of the instructor.

33. Economic Development of the United States. *Mr. Lorenz* and *Mr. Smith.*

American economic development from the colonial period to the present; economic factors involved in industrial growth and the resulting economic problems.

312. Elementary Economic Statistics. *Mr. Sebba* and *the Staff.*

Introduction to the presentation and analysis of quantitative economic data; statistical sources; table reading; chart making; introduction to index numbers and time series analysis.

326. Money and Banking. *Mr. Dince* and *the Staff.*

Money in the economic organization; monetary theory; methods of stabilizing the price level; theories of bank deposits; discount policy and the interest rate of central banks; regulation of credit.

334. Personal Finance. *Mr. Dince* and *Mr. Sutton.*

Principles and practices involved in buying on credit; borrowing money, saving money buying securities, insurance, annuities, real estate; problems of taxation and wills.

358. (Geography) Economic Geography. *Mr. Prunty.*

Relation of geographic factors to economic conditions in determining the nature and location of the several productive occupants; distribution of the output.

360. Principles of Marketing. *Mr. Troelston* and *the Staff.*

Principles and methods involved in the movement of goods and services from producers to consumers.

361. Marketing Problems. Prerequisite: Economics 360. *Mr. Troelston* and *the Staff.*

Merchandise policy; channels of distribution; brand policy; organization and control methods; price policies and legislative regulation.

386. Labor Economics. *Mr. Segrest* and *the Staff.*

Survey of labor organization, wages, hours, unemployment, labor legislation, and current developments in labor.

400. (Anthropology) Early Economic Systems. Prerequisites: Anthropology 102 and Economics 5x. *Mr. Kelly.*

Economic life of primitive peoples; concepts and principles of classical economics, developed in Western civilization, are studied in the light of practices and thought among primitive groups in Asia, Africa, and the South Pacific.

406. Advanced Economic Theory. *Mr. Smith.*

Application of theoretical tools to value, distribution, money, business fluctuations, and the relationships between government and business.

421. Punched-Card Statistics. Prerequisites: Business Administration 315 and an introductory course in statistics. *The Staff.*

Use of punch-card machines in the treatment of numerical data; preparation of statistical surveys in a form suitable for machine use in the processing of the data; use of tables in the form of pre-punched cards.

430. Corporate Finance. *Mr. Dince* and *Mr. Sutton.*

Promotion and organization of corporations; forms of securities issued; problems of financial administration; analysis of causes of failure; rehabilitation of bankrupt corporations.

431. Investments. Prerequisite: Economics 326. *Mr. Dince* and *Mr. Sutton.*

Elements of an "ideal" investment; examination and testing of specific investment securities.

432. Fundamentals of Investment Banking. Prerequisite: Economics 326. *Mr. Dince.*

Economics of investment banking; private investment banking machinery; institution investment banking.

434. (Political Science) Public Finance. *Mr. Dince.*

A general consideration of American public expenditures, revenues, and fiscal administration.

435. (Political Science) State and Local Public Finance. Prerequisite: Economics 434. *The Staff.*

Revenues, expenditures, and fiscal administration of Georgia and its political subdivisions; fiscal comparisons of Georgia with other states; and an analysis of intergovernmental tax relationships.

436. Business Cycles. *Mr. Sebba.*

Economic and social significance of business fluctuations; causes of business cycles; measures for controlling cycles; possibilities of business forecasting.

437. Comparative Economic Systems. *Mr. Smith* and *the Staff.*

Analysis and appraisal of the theories underlying economic systems; proposed and existing schemes with respect to the maintenance of full employment, distribution of income, and encouragement of progress.

441. (Political Science) Principles of Public Administration. *Mr. Hughes.*

General principles and problems of administrative organization, relationships and controls in the United States; personnel; financial administrative law; the growth and significance of administrative legislation and adjudication; influence of political and social beliefs, legislatures and pressure groups.

442. (Political Science) Public Personnel Administration. *Mr. Collins.*

Procedures, policies, and problems of governmental personnel administration; field trips and field studies of governmental agencies give the student firsthand knowledge of governmental personnel administration.

443. (Political Science) Public Finance Administration. *Mr. Hughes.*

Activities involved in the collection, custody, and expenditure of public revenue; the assessment and collection of taxes; public borrowing and debt administration; preparation and enactment of the budget; financial accountability and the audit.

444. (Political Science) Government and Business. *Mr. Smith.*

Economic aspects of business regulation by the government; regulatory developments and methods in the United States; loans and subsidies; fact-finding agencies; government-owned corporations.

450. Monetary Policy. Prerequisite: Economics 326. *Mr. Dince.*

Advanced treatment of problems introduced in Economics 326.

455. Contemporary Economic Problems. *Mr. Lorenz* and *Mr. Smith.*

Application of economic theory to certain problems of contemporary economic life, such as monopoly, business cycles, tariffs, inflationary influences, industrial conflict, etc.

465. Marketing Research and Analysis. Prerequisite: Economics 361. *Mr. Troelston.*

Scientific method in the construction of general marketing research studies; the solution of specific distribution problems; qualitative market analyses; market trends; data collection, tabulation, and interpretation.

466. Economics of Consumption. *Mr. Troelston.*

Economics of the consumer market; the process of consumption; position and responsibilities of the consumer; desirable controls of consumption.

475. Economics of Transportation. *Mr. Lemly* and *Mr. Smith.*

Study of the economic principles of transportation with special emphasis on the history and regulations of railroads.

Majors in Aeronautical Administration will be required to complete additional assignments in air transportation.

480. International Trade. *Mr. Smith* and *the Staff.*

Economic importance and problems of international trade; exchange rates and monetary standards; tariffs and other trade barriers; debts; the position of international trade in the post-war world.

488. The Securities Market. *The Staff.*

Organization and functions of the New York Stock Exchange; types of transactions; types of traders; brokerage houses; speculation; relation of business cycles to stock prices; forecasting.

489. The Labor Movement. Prerequisite: Economics 386. *Mr. Segrest.*
Historical background of modern industrial relations; economic, social, and political forces contributing to the current problems in labor economics.

490. Labor Legislation. Prerequisite: Economics 386. *Mr. Segrest.*
State and federal legislation in the field of industrial relations.

492. (Political Science) American Administrative Law. *Mr. Saye.*
Legal principles and practical doctrines involved in work of administrative tribunals (the Interstate Commerce Commission, Federal Trade Commission, etc.) vested with quasi-legislative or quasi-judicial powers, or both.

494. European Economic History. *Mr. Lorenz.*
Development of the economic aspects of civilization in medieval and modern times; evolution of economic institutions; historical background of present economic problems.

511. Rate Making. *Mr. Smith.*
Rate structure and rate level problems of transportation and utility industries; classification practices and techniques; rate relationships.

577. Public Utilities. *Mr. Smith.*
Development, characteristics, rights and duties of public utilities; problem of regulation and rates; service; securities; holding companies in the electric utilities; activities of the Federal government in the power field.

585. Personnel Administration. Prerequisites: Psychology 1 and Economics 386. *Mr. Roman.*
Principles and practices in the field of the administration of human relations in industry; scientific techniques and devices in the development of a well-rounded personnel program.

760. Seminar in Marketing and Sales Administration. *Mr. Troelston.*
Sales and marketing problems with emphasis upon current developments in wholesale and retail agencies. Permission of the instructor required.

792. Applied Business Research. *Mr. Gill.*
Applications of business research results in the determination of policy and in the planning of operations of business enterprises.

807. The History of Economic Thought. *Mr. Smith.*
The evolution of the important principles of economics with emphasis on the history of the theories of value and distribution. Permission of the instructor required.

844. Seminar in Government and Business. *Mr. Smith.*
Current issues in the field of governments' relation to business with particular emphasis on problems associated with monopoly and competition.

850. Research in Money and Banking. *Mr. Dince.*
Individual research in money and banking. Permission of the instructor required.

886. Problems in Industrial Relations. *Mr. Segrest.*
Current problems in industrial relations with particular emphasis on the current status of unionism in the United States in terms of the effects of union organization, policies, and methods upon employer-employee relations.

890. Index Numbers. *Mr. Sebba.*
Index number construction and interpretation; a survey of the most important index numbers currently used in economic statistics.

891. Research in Applied Economic Statistics. *Mr. Sebba.*
Individual research in the application of statistical methods to economic problems. Permission of the instructor required.

892. Time Series Analysis. *Mr. Sebba.*
Statistical time series analysis and its application to economic analysis.

893. Economics Seminar. *The Staff.*
A research problem in the field of major concentration under personal supervision of the major professor. Permission of the instructor required.

ENGLISH

(Robert E. Park Hall, North Campus)

Head: Everett. Staff: Appleby, Beaumont, Biswanger, Boatwright, Bornhauser, Brown, Davidson, Dumas, Eidson, Harrell, Hart, Huff, Hutcherson, McWhorter, Montgomery, Olney, Parks, Paulk, Rountree, Rushmore, Sullivan, Talmadge, Tison, Tucker, Walker, Wall, Wallis, and West.

English 2 x-y and English 22x-y are prerequisite to all other English courses.

2 x-y. Composition. 10 hours (5 hours a quarter). *Miss Dumas* and *the Staff.*
First quarter: grammar, punctuation, mechanics, diction, and sentence structure. Second quarter: readings from English and American literature. Themes and parallel reading required throughout the course. Conferences on themes and reading.

6. Oral and Written Composition. *Mr. Talmadge* and *Mr. Wall.*
Required of students in agriculture and agricultural engineering.

22 x-y. European Literature. 10 hours (5 hours a quarter). Prerequisite: English 2 x-y. *Mr. West* and *the Staff.*
A survey of European literature from Homer to the twentieth century.

303. English Literature to 1800. *Mr. Wall.*
A general course in English literature designed to give any student a broad knowledge of the subject. English 303 and English 304 together offer a full survey of English literature, but either or both of these courses may be taken.

304. English Literature After 1800. *Mr. Wall.*
Continuation of English 303.

305. Lyric Poetry. *Mr. Davidson.*
A study of the types, techniques, and interpretations of poems selected from English and American literature.

310. Advanced Grammar and Syntax. This course is recommended to students interested in teaching or in writing. *Miss Dumas.*

343. Contemporary Drama. *Mr. Olney.*

360. Advanced Composition. *Mr. Talmadge.*
Factual writing. Admission by consent of the instructor.

361. The Short Story. *Mr. Eidson.*
A history of the short story as a literary form.

370. Creative Writing. Prerequisite: English 360. *Mr. Talmadge.*
Emphasis upon the short story and the personal essay. Admission by consent of the instructor.

400. Old English. *Mr. Brown.*
A study of the language and literature of England before the Norman Conquest, with reading of selected texts.

402. Chaucer. *Mr. Brown.*
A study of the Canterbury Tales, Troilus and Criseyde, and minor poems.

403. Milton. *Mr. Davidson.*
A study of the work and times of John Milton.

404. The Age of Pope. *Mr. Davidson.*
A study of the works of Pope, Defoe, Addison, Steele, and Swift.

405. The Age of Johnson. *Miss Dumas.*
A study of the works of Samuel Johnson and his most important contemporaries.

406. The Romantic Movement. *Mr. Everett.*
A study of the major English poets of the early nineteenth century.

407. The English Drama to 1641. *Mr. Tison.*
A study of the English drama (exclusive of Shakespeare) from the beginning to the closing of the theatres.

409. Elizabethan Poetry. *Mr. West.*
A study of the Elizabethan non-dramatic poets from Spenser to Donne.

410. History of the English Language. *Mr. Brown.*
The development of English from its beginning to the present time.

420. American Literature to 1865. *Mr. Eidson* and *Mr. Parks.*
A survey of literary works and the main intellectural currents.

422. American Literature after 1865. *Mr. Eidson* and *Mr. Parks.*

425. Romanticism in American Literature. *Mr. Eidson* and *Mr. Parks.*
A study of the works of Emerson, Whitman, and Hawthorne.

427. Realism in American Literature. *Mr. Eidson* and *Mr. Parks.* (Not offered in 1955-56.)
A study of the works of Mark Twain, Henry James, and William Dean Howells.

429. Southern Literature. *Mr. Eidson* and *Mr. Parks.*
A survey of the intellectual thought and literary achievement in the South from 1610 to the present time, with emphasis upon Poe, Timrod, and Lanier.

440. Shakespeare to 1600. *Mr. West.*
Romeo and Juliet; A Midsummer Night's Dream; The Merchant of Venice; King Richard the Second; King Henry the Fourth, Part I; Much Ado About Nothing; As You Like It; Hamlet.

441. Shakespeare after 1600. *Mr. West.*
Twelfth Night; Macbeth; King Lear; Antony and Cleopatra; Coriolanus; The Winter's Tale; The Tempest.

442. Early Victorian Literature. *Mr. Everett.*
A study of the works of Carlyle, Tennyson, and Browning.

451. Music and Literature. *Mr. Brown.*
A comparative study of the forms, relationships, and aesthetics of music and literature. Admission by consent of the instructor.

452. Late Victorian Literature. *Mr. Everett.*
A study of the works of Arnold, Ruskin, and Swinburne.

801. Beowulf. *Mr. Brown.*
A study of the text, with consideration of linguistics, the epic tradition, and Anglo-Saxon civilization.

803. Milton. *Mr. West.*
A study of the major works of John Milton with particular attention to their intellectual background.

806. Seminar in English Romantic Literature. *Mr. Everett.*
A research course in special problems.

808. Middle English. *Mr. Brown.*
Language and literature of England from 1150 to 1400, with reading of selected texts representing the various periods and dialects.

820. Seminar in American Literature. *Mr. Parks.*
A research course in special problems.

840. Seminar in Elizabethan Drama. *Mr. West.*
A research course in special problems, with major emphasis on Shakespeare.

842. Seminar in Victorian Literature. *Mr. Everett.*
A research course in special problems.

ENTOMOLOGY*

(Baldwin Hall, North Campus)

Head: Lund. Staff: Jordan, Paul.

Students registered in the Franklin College of Arts and Sciences may, with the permission of the Head of the Department, credit the following zoology courses toward a major in Entomology: Zoology 353, Zoology 370, Zoology 390, and Zoology 454.

373. General Entomology. Three lectures and two double laboratory periods. Prerequisites: Two courses in animal biology. *Mr. Paul.*
A field and laboratory study of the structure, biology, and classification of insects and of their general importance and significance to man.

374. Economic Entomology. Three lectures and two double laboratory periods. Prerequisites: Two courses in plant or animal biology. *Mr. Paul.*
A course designed to provide the practical information essential for the recognition and control of the insect pests most commonly encountered in the field, orchard, garden, woodlot, and home.

375. Forest Entomology. Three lectures and two double laboratory periods. Prerequisites: Two courses in plant or animal biology. *Mr. Lund.*
A study of the biology, identification, and control of the species of insects destructive to American forests.

*Students may be held responsible for breakage in laboratory courses.

376. Medical Entomology. Three lectures and two double laboratory periods. Prerequisites: Two courses in plant or animal biology. *Mr. Lund.*
A study of the biology, identification, and control of the species of insects and related arthropods of particular importance in the cause or transmission of diseases of man and the lower animals.

474. Advanced Economic Entomology. Three lectures and two double laboratory periods. Prerequisite: one of the following entomology courses: 373, 374, 375, or 376. For graduate credit, one additional senior division course is required. *Mr. Paul.*
An advanced treatment of economic entomology including actual field work in experimental methods, biological control, and the insect transmission of plant diseases.

477. Chemistry and Toxicology of Insecticides and Fungicides. Three lectures and two double laboratory periods. Prerequisites: one course in organic chemistry and one of the following entomology courses: 373, 374, 375, or 376. *Mr. Paul.*
A study of the physical and chemical behavior of insecticides and accessory materials and of their toxicological effects upon plants and animals.

805. Insect Parasites. Prerequisites: Entomology 373, 374, 375, or 376 and one additional senior division course. *Mr. Lund.*
An advanced study of the structure, life-histories, and identification of those insects and related arthropods which cause or transmit disease in man or lower animals.

871. Taxonomy of Insect Larvae. Two lectures and three double laboratory periods. Prerequisites: Any one of the following: Entomology 373, 374, 375, or 376 and one additional senior division course. *Mr. Lund.* (Offered alternate years. Not offered in 1955-56.)
A study of the classification, biology, and phylogenetic and economic significance of insect larvae.

873. Advanced General Entomology. Three lectures and two double laboratory periods. Prerequisites: Entomology 373 and one additional senior division course. *Mr. Lund.* (Offered alternate years.)
An advanced treatment of general entomology including biological nomenclature, insect evolution and classification, sensory physiology, and other special topics.

FINE ARTS

(Fine Arts Building, North Campus)

Given under the general direction of the chairman of the Division of Fine Arts.

300. Music and the Visual Arts. No credit will be allowed for fine Arts 300 when credit is already shown for Art 317 and Music 343. *Mr. Dodd, Mr. Hodgson,* and *Staff.*
Nature and materials of the visual arts in their relation to man, with emphasis on the influence of art products in contemporary living and thinking. A field of study comprising painting, sculpture, architecture, graphic arts, arts of industry and commerce. Also a study of works of outstanding figures in music taken chronologically.

FRENCH

(See Modern Foreign Languages)

GEOGRAPHY AND GEOLOGY*

(LeConte Hall, North Campus)

Head: Prunty. Staff: Barnes, Hart, deLaubenfels, Mather, Parizek, Woodruff.

HUMAN AND REGIONAL GEOGRAPHY

Note: Courses listed below carry credit as social sciences and a major selected primarily from the following courses leads to an A.B. degree.

101. World Human Geography. *Mr. Barnes, Mr. Mather,* and *the Staff.*
A survey of world human geography, emphasizing population characteristics,

*Students may be held responsible for breakage in laboratory courses.

topographic features, distribution of economic activities and geo-political problems within the major geographical regions. Consideration of adequacy of resources to support expanding world populations.

341. Problems in Political Geography. Prerequisites: Geography 101 or History 110x-y. *Mr. Hart.*

A summary of geographical influences upon the nature and history of states and nations. Primary emphasis upon geopolitical conditioning of international affairs since World War I. Analysis of current strategic positions of U. S. and U. S. S. R.

352. Geography of Anglo-America. Prerequisite: Geography 101 or History 110 x-y. *Mr. Mather.*

A regional analysis of the human geography of the United States, Canada, Alaska, and the continental possessions of Britain, emphasizing the physical and economic factors affecting the utilization of the several regions. Particular stress will be given the Southeastern States.

358. Economic Geography. Three lectures and two laboratories. Prerequisite: Geography 101, History 110 x-y, or one course in Economics. *Mr. Prunty.*

Mineral and forest raw materials production, sources and adequacy of supply for expanding American markets and population. Extraction and processing problems related to areas of raw material occurrence. Principal manufacturing industries based upon use of these raw materials; problems in industrial location. Primary emphasis on power minerals—coal and oil—and upon major U. S.-European manufacturing regions.

365. Geography of Southeast Asia. Prerequisite: Geography 101 or History 110 x-y. *Mr. Mather* or *Mr. Woodruff.*

A regional analysis of the physical geography and problems in the economic and political geography of Southeast Asia. Emphasis on Japan, China, and India.

436. Geography of the Southeastern States. Prerequisite: Ten hours in courses from one of the following departments: Geography and Geology, History, or Economics. *Mr. Prunty.*

Geographical appraisal of the Southeastern States, including physical resources and human geography of the South, emphasizing sources of settlement and population, agriculture, the extractive industries, transportation, and present urban settlements. Present human-use regions of the South. Current progress and major problems in Southeastern development; suggests geographical approaches to their solution.

441. Caribbean America. 3 hours. Prerequisite: 10 hours in Geography and Geology, or an equivalent background in either Spanish or History. *Mr. deLaubenfels* or *Mr. Mather.*

A regional analysis of the geography of the Caribbean Area with emphasis upon the cultural and economic ties of the American South with the Caribbean area. This course is scheduled with Geography 442—SOUTH AMERICA—and should be taken in the same quarter with Geography 442.

442. South America. 3 hours. Prerequisite: 10 hours in Geography and Geology, or an equivalent background in either Spanish or History. *Mr. deLaubenfels.*

A regional analysis of the geography of equatorial and southern South America including treatment of physical, cultural, and economic characteristics of the several regions within the South American nations. Stress upon prospects for expansion of settlements, developments of resources and growth of industries. This course is scheduled with Geography 441—CARIBBEAN AMERICA—and should be taken in the same quarter with Geography 441.

444. Europe and the Mediterranean. Prerequisite: 10 hours in Geography and Geology, or an equivalent background in History or Modern Languages. *Mr. Hart.* (Not offered 1955-56.)

A regional analysis of the human geography of peninsular, western, and central Europe, and the Mediterranean Basin, emphasizing physical, ethnographic, and economic factors affecting the utilization and political problems of the several nations.

446. Geography of the Soviet Union. Prerequisite: 10 hours in Geography and Geology, or an equivalent background in Modern Languages or History. *Mr. Hart.*

A regional analysis of the physical, ethnographic and economic geography of the U.S.S.R., designed to evaluate the industrial and political strength of the Soviet Union.

533. Geography of the Community. Prerequisite: Ten hours from the following courses: Geography 310, 352 or 358, Sociology 431 or 435. *Mr. Barnes.*

Analysis of structure and primary functional patterns of small and medium-sized American towns. Areal differences in morphology of such settlements, and reasons therefore. Field techniques in assessment of community morphology constitute about half the course. Techniques in assessment via statistical and local original source-data. This course intended primarily for professional teachers and school administrators. Offered summer quarter only.

837. Topics in the Geography of the South. 3 hours. *Mr. Prunty.*

Selected topics in the geography of the American South, with emphasis upon land occupance types, landforms, and raw materials production. Topics and areas of detailed study may vary.

845. Topics in the Geography of Northwestern Europe. 3 hours. *Mr. Hart.*

Selected problems in the physical and cultural geography of Northwestern Europe, with special emphasis on the British Isles. Topics and areas of study may vary.

TECHNIQUES AND METHODS IN GEOGRAPHY AND GEOLOGY

350. Cartography and Graphics. Five laboratory periods. *Mr. Barnes* or *Mr. Woodruff.*

Theory and practice in map and chart design and construction. Emphasis on compilation techniques, use of source data for map construction, application of aerial photos to mapping problems, graphic presentation of statistical materials. Includes practice in use of all basic cartographic instruments, construction of basic types of geographical, geological, and statistical maps. Intended for the student who has had no training in mapping procedures.

391. Directed Map and Photogrammetric Compilations. 3 hours. Prerequisite: Geography 350 or 420. *Mr. Barnes.*

Directed problems in compilation processes for map reproduction. Problems in projection fitting, air photo scale and distortion control, field and statistical compilation, reproduction specifications. Utilization of primary map, field survey and air photo sources in compilation cartography.

420. Use and Interpretation of Aerial Photographs. Five laboratory periods. Prerequisites: 4 or more quarters of forestry or agriculture, or Geography 350 and one other 300 level course, or permission of the instructor. *Mr. Barnes* or *Mr. Woodruff.*

Theory and procedures in use of aerial photos for mapping, planning, terrain and contour identification, forest and vegetation identification. Procedures in correction of photo errors, for preparation of base-maps, will be stressed. Training in use of standard photogrammetric instruments, and in planning photo-reconnaisance of sample areas.

422. Advanced Photogrammetry Laboratory. Five laboratory periods. Prerequisite: Geography 420 or equivalent. *Mr. Barnes.*

Laboratory instruction on individualized photogrammetric problems related to the major interests of the student. Recommended for students in fields other than geography to which photogrammetry applies, such as forestry, agronomy, agricultural engineering, botany, landscape architecture, geology. Students will be required to acquire mastery of advanced photogrammetric instruments.

425. Field Methods in Geography and Geology. 3 hours. Prerequisites: 15 hours in Geography and Geology courses numbered above 200 including Geography 350, plus at least a B average in junior-senior major courses. *Mr. Woodruff.*

Methods in measurements, observation, recording, and synthesis of field data in Geography and Geology. Field analysis of all features in one small type-area required, including completed maps of publication standard and written report in which recorded data are correlated and synthesized.

429. Special Problems in Area Analysis. 3 hours. Prerequisite: Fifteen hours in courses number above 300 in Geography and Geology. Approval of instructor concerned, and head of department, must be obtained for admission to this course *prior* to registration. *Mr. Prunty* and *the Staff.*

801. Seminar in Land Utilization and Settlement. 3 hours. *Mr. Prunty* and *the Staff.*

Seminar in selected problems and geographical concepts relating to land occupance, development, and settlements. (Required for all graduate majors in geography.)

802. Seminar in Land Utilization and Settlement. 3 hours. *Mr. Barnes* and *the Staff.*

Continuation of 801, with emphasis upon cartographic appraisals of land occupance and settlement types. (Required for all graduate majors in geography.)

803. Seminar in Land Utilization and Settlement. 3 hours. *Mr. Mather* and *the Staff.*

Continuation of 801-802, with emphasis on North American land utilization and settlement problems. (Required for all graduate majors in geography.)

821. Advanced Problems in Cartography. Two lecture and three laboratory periods. Prerequisite: Geography 350 or 420, or equivalent background, plus other advanced course work in either Geography or Geology. *Mr. Barnes.*

Cartographic problems in projections, design, reproduction. Application of cartographic processes to regional analysis. Problems in photogrammetric control in cartographic compilation. Selected current research problems in cartography, and photogrammetry.

GEOLOGY AND PHYSICAL GEOGRAPHY

Note: Courses listed below carry credit as physical sciences. Courses 4, 121, 122, and 310 do not carry laboratory science credit. A major selected primarily from the following courses leads to a B.S. degree.

4. Earth Science Survey. *Mr. Hart* and *the Staff.*

A survey of fundamental concepts and contributions selected from the fields of physical geography (physiography, climatology), physical and historical geology.

25. Elements of Geology (Physical). Three lectures and two laboratory periods. *Mr. Woodruff* and *the Staff.*

Fundamentals of physical geology, including origin and composition of the primary earth materials, agents of erosion, sedimentation, metamorphism, modes of occurrence of the common minerals, and analysis of the common crustal structures.

26. Elements of Geology (Historical). A continuation of Geology 25. Three lectures and two laboratory periods. *Mr. Parizek* and *the Staff.*

Historical principles in geology, including floral, faunal, bio-geographic, and stratigraphic relationships of the several geologic epochs.

121. The Natural Environment (Physical Geography). *Mr. Woodruff, Mr. deLaubenfels,* and *the Staff.*

A systematic analysis of major features of the natural environment and their interrelations, stressing common rocks, landforms, geomorphic and water-resource characteristics within the major landforms. Distribution and characteristics of the major residual soils types.

122. The Natural Environment (Physical Geography). A continuation of Geography 121. *Mr. deLaubenfels.*

Evaluation of weather fundamentals, climatic, vegetative, and water-resource phenomena, and their ecological relationships within the physical environment as illustrated by selected areas.

310. Conservation of Natural Resources. *Mr. Barnes* or *Mr. Woodruff.*

Resource problems and related conservation techniques in the United States. Particular emphasis placed upon resource conservation problems of the Southeastern States.

321. Mineralogy and Crystallography. 3 hours. One lecture and two laboratory periods. Prerequisite: Geology 25-26. *Mr. Parizek.*

Physical and chemical properties of minerals, their rock-associations, modes of occurrence, industrial uses. Properties of crystals, crystal systems and geometrical characteristics, abnormalities in mineral-crystal structure.

323. Petrology. 3 hours. One lecture and two laboratory periods. Prerequisite: Geology 321. *Mr. Parizek.*

Origins of the sedimentary, igneous, and metamorphic rocks, modes of occurrence, chemical and physical changes to which rocks are subject. Systematic and descriptive analysis of rocks.

332. Structural Geology. 3 hours. One lecture and two laboratory periods. Prerequisite: Geology 25-26. *Mr. Parizek.*

Framework of the earth's crust, and causes of its distortion. Analysis of flexures, faults, joints. Origin of mountains, continents, and oceans. Laboratory studies of geological maps and the deduction of earth forces resulting in present rock attitudes.

334. Principles of Sedimentation. 3 hours. Prerequisite: Geology 323. *Mr. Parizek.*

Study of processes whereby sedimentary rocks are formed, media and agents of transportation, chemical and physical factors involved in deposition, and environmental conditions causing variations in above processes. Special emphasis upon outstanding present areas of sedimentation, e.g., Gulf of Mexico.

358. The Mineral Industries. (See Geography 358).

401. Regional Climatology and Vegetation. Four lecture and one laboratory periods. Prerequisite: 10 hours in Geography and Geology including Geography 122, or an equivalent background in Botany. *Mr. deLaubenfels.*

Analysis of world climatic and vegetative regions involving such deterministic factors as air mass characteristics, heat and moisture requirements of vegetative associations, the influences of topographic and edaphic conditions upon the relations of climates to natural and cultivated vegetation. Application of the classification systems of Transeau, Koppen, and Thornthwaite required.

402. Geomorphology. Four lecture and one laboratory periods. Prerequisite: 10 hours in Geography and Geology, or an equivalent background. *Mr. Mather.*

Analysis of processes which have developed present relief of the earth's surface, study of physical landscapes which comprise the earth's outer layers. Evaluation of relief features found in the major physiographic regions of the American Southeast. Other physiographic regions, selected on a world-wide basis, examined as type-examples.

403. Invertebrate Paleontology. Three lecture and two laboratory periods weekly. Prerequisite: Geology 26 and 332, plus Zoology 26, or equivalent background. *Mr. Parizek.*

Study of fossil invertebrates, emphasizing relationships in anatomical structures of living and extinct types, analysis of the classifications, ecology, and geological history of all phyla of invertebrates. Laboratory problems emphasizing facility in stereo-microscopic analysis.

404. Principles of Stratigraphy. 3 hours. Two lecture and one laboratory periods weekly. Prerequisite: Ten hours in Geography and Geology, including Geology 332. *Mr. Parizek.*

Arrangements of strata of rocks in the earth's crust, emphasizing the vertical sequences and lateral correlations of layered deposits. Particular attention to the methods involved in identification and correlation of typical stratigraphic associations through analysis of organic and structural constituents.

406. Advanced Historical Geology. Four lecture and one laboratory periods weekly. Prerequisite: Ten hours in Geography and Geology, including Geology 332. *Mr. Parizek.* (Not offered in 1955-56).

Principles of paleontological analysis of strata, emphasizing the bio-geographic characteristics typical of geological periods in Eastern North America. Special attention to the index fossils and the place of organisms in the growth of strata.

476. Vegetation of North America. (Botany 476.)

GERMAN

(See Modern Foreign Languages)

GREEK

(See Classics)

HISTORY

(Academic Building, North Campus)

Head: Coulter. Staff: Brandon, Jones, McPherson, Martin, Montgomery, Nichols, Smith, Vinson

20. American Military History (Military Science 1-a(h), -b(h), or -c(h). 2 hours. *Mr. Jones* and *Mr. Montgomery.*

A history of the development of the United States Army from the Revolution through the Korean War. Required of ROTC freshmen.

100. Survey of American History. *The Staff.*
This course is designed to satisfy the state law requiring that all students receiving degrees shall pass an examination on the history of the United States and of Georgia.

110 x-y. History of Western Civilization. 10 hours (5 hours in each of two quarters). *Mrs. Brandon, Mr. Jones, Mr. McPherson, Mr. Nichols,* and *Mr. Smith.*

History 110 is prerequisite to all courses which follow.

325. Ancient History. *Mr. Jones.*
A survey of the ancient peoples and cultures of the Near East from earliest historical times through the Persian Empire.

340 x-y. English History. 10 hours (5 hours in each of two quarters, either quarter elective for final credit, though it is recommended that the whole course be taken). *Mr. Jones.*
A survey of English history from the earliest times to the present. The division point in the two parts of this course is 1688.

350 x-y. American History. 10 hours (5 hours in each of two quarters). *Mrs. Brandon, Mr. Martin, Mr. Montgomery,* and *Mr. Vinson.*
An interpretation of the development of the American nation from the age of discovery to the present.

405. Constitutional History of the United States. *Mr. Montgomery.*
A study of how actual political and social conditions in American history have produced fundamental constitutional principles and practices.

410. History of the Far East. *Mr. Vinson.*
A survey of Oriental history with special emphasis on the roles of China and Japan in world affairs during the last two centuries.

420. Nineteenth Century Europe. *Mr. Jones.*
A history of Europe from 1814 to 1914. The main political, international, social, economic, cultural, and intellectural movements will be stressed.

430. Europe since 1914. *Mr. Smith.*
A study of the causes, main phases, and results of the First and Second World Wars, the chief political, economic, social, and cultural problems of the countries of Europe between these two wars, and the chief problems of these countries since 1945.

451. The American Colonies. *Mr. Martin.*
A study of the early settlements made in North America by the English, French, Spanish, and Dutch; and how these European peoples made an American society by adapting old world forces to a new world environment. The course ends with the French and Indian War in 1763.

452. The Revolution and the Rise of the American Nation. *Mr. Martin.*
This course covers the period of American history from 1763 to 1800, which includes the Revolution, its causes and results; the Articles of Confederation; the writing and adoption of the Federal Constitution; and the administrations of George Washington and John Adams.

453. The Middle Period of American History. *Mr. Montgomery.*
This course covers the period in American history from the election of Thomas Jefferson in 1800 to the election of Abraham Lincoln in 1860. The development of the political, social, and economic factors is traced.

454. The Civil War Period of American History. *Mr. Coulter.*
Special attention will be given to the civilian activities of the people, and to the problems of the Northern and Southern governments. Emphasis will be placed on the Confederacy. Only the major military campaigns will be considered.

455. The Reconstruction Period. *Mr. Coulter.*
The reconstruction of the South along all lines as well as the remaking of the North will be taken up in this course. Beginnings will be found during the Civil War and the process will be continued to 1877.

456. Recent American History. *Mr. Martin.*
Beginning with the presidency of Rutherford B. Hayes in 1877, this course will continue to 1900. Politics will be overshadowed by the social and economic picture.

457. The Ante-Bellum South. *Mr. Coulter.*
This course begins with the late colonial period, when settlers were pushing across the Southern Appalachians, and continues to the secession of the South. All aspects of Southern life and civilization will be dealt with.

458. History of American Diplomacy. *Mr. Vinson.*
A course designed to acquaint the student with the part the United States has played in its relations with other nations and to show the contributions it has made in promoting international morality and the ideals of American democracy abroad.

459. History of Georgia. *Mr. Coulter.*
A study of Georgia from its first occupation by the Spaniards down to the present, though emphasis will be placed on the period before the present century. A comprehensive discussion of all aspects of Georgia's development.

460. Russia and the Soviet Union. *Mr. Smith.*
A survey covering the history of Russia from the earliest beginnings of Russian civilization in the ninth century to the present time. The first half of the course is devoted to the growth of the Russian Empire and its institutional development before 1800; the second half, to the decline of imperial Russia in the nineteenth century and the development of the Soviet regime after the 1917 Revolution.

465. The Industrial Revolution in Great Britain. *Mr. McPherson.*
The development of machines, power, and transportation during the century following 1760.

473. The Tudor Period of English History, 1485-1603. *Mr. McPherson.*
England's emergence as a modern state. Constitutional and social progress, her part in the Renaissance and Reformation, her increasing international importance, and her emergence as a sea power.

474. The Stuart Period of English History, 1603-1714. *Mr. McPherson.*
England during the evolution of parliamentary supremacy. Constitutional development—early Stuart despotism, the Civil War, the Puritan Commonwealth, the Restoration, and the Glorious Revolution. Economic, social, and religious activities of the period.

476. The Age of Reason and the French Revolution, 1660-1815. *Mr. Smith.*
Western Europe in the eighteenth century, centered on France in the Age of Enlightenment, showing how the French Revolution of 1789-1804 was the climax of gradual decay of one political, social, economic, and intellectual system, and replacement by another.

477. Medieval Europe. *Mr. Jones.*
The history of Europe from the Fall of Rome to the Renaissance. The topics covered include the barbarian invasions, the growing power of the Church and its struggle with the temporal rulers, feudalism, the Crusades, as well as the social and literary development during the period.

478. The Renaissance and Reformation. *Mr. Jones.*
A study of the transition from medieval conditions with emphasis on the social, economic, and cultural changes of the Renaissance and the great religious upheaval of the sixteenth century.

491. The Latin-American Colonies. *Mr. Nichols.*
This course begins with the voyages of discovery and covers the period of colonization and exploitation of the colonies by Spain and Portugal and ends with the Wars of Independence.

492. The Latin-American Republics. *Mr. Nichols.*
A course devoted to the study of the Latin-American Republics from the time of their independence to the present day.

493. The Caribbean Area. *Mr. Nichols.*
Conquest and settlement of the islands and Caribbean periphery by the Spanish, the intrusions by the French, Dutch, and English, and the more recent developments of the nineteenth and twentieth centuries.

495. The United States in World Affairs, since 1900. *Mr. Vinson.*
The emergence of the United States into an important place in world affairs at the beginning of the twentieth century, its economic and cultural development as a world power, and the part it played in World Wars I and II.

800. Historic Method and Bibliography. *Mr. Coulter.*
Required of graduate students majoring in history. This course will include methods of research and various aids, as well as the generally accepted usages in historical composition. Also, it will take up a survey of the history of historical writing.

801. Research Topics in American History. *Members of the Department on the Graduate Faculty.*
Topics will vary from year to year.

820. The New South. *Mr. Martin.*
The South since the Reconstruction period with special emphasis upon social, economic, and political developments of the region.

854. The Confederate States of America. *Mr. Coulter.*
Problems of a government attempting to organize itself in the midst of war, with emphasis on the non-military aspects of its development.

858. The United States Between Two Wars, 1919-1939. *Mr. Vinson.*
Aims, methods, and accomplishments of the United States in foreign affairs in the period between the two World Wars.

859. Colonial Georgia. *Mr. Coulter.*
Colonial life and institutions in Georgia—a unique experiment in British colonial policies.

870. The Age of Reform in Great Britain, 1850-1870. *Mr. Jones.*
British adjustments to the society created by the Industrial Revolution, in which economic, social, political, and religious topics are taken up.

894. Studies in Latin American History since 1825. *Mr. Nichols.*
History of some regional groupings of Latin American republics, as for instance the Caribbean, northern South America, Chile, and Argentina; and especially in the modern period, political, economic, social, and cultural problems.

MATHEMATICS

(LeConte Hall, North Campus)

Head: Huff. Staff: Barrow, Beckwith, Brahana, Cohen, M. K. Fort, Hill, Kiser, **Levit, Stanley.

99. Remedial Course in Algebra. 3 hours. *The Staff.*
A course designed for students who have had insufficient high school preparation to enter 101 or who for other reasons are deficient in their mathematics; devoted to drill on elementary and intermediate algebra; meets five times per week.

101x. College Algebra. Prerequisite: at least two units of high school mathematics including one year of algebra. *The Staff.*
Review of some elementary algebra, quadratic equations, binomial theorem, progressions, complex numbers, theory of equations.

101y. Trigonometry. Prerequisite: at least two units in high school mathematics, including one year of algebra. *The Staff.*
Trigonometry with some study of probability and statistics.

102. Mathematics of Finance. 3 hours. Prerequisite: Mathematics 101x. *The Staff.*
Simple interest and discount, compound interest, annuities, sinking funds, amortization, bonds, building and loan associations.

110(210*). Analytical Geometry. Prerequisite: Mathematics 101 x-y. *The Staff.*
The straight line, circle, and conic sections with some solid analytic geometry.

303. Mathematics of Life Insurance. 3 hours. Prerequisite: Mathematics 102. *The Staff.*
Pure endowments, life annuities, whole life insurance, annual premiums, term insurance, endowment insurance, reserves, surrender values, loading.

354. Calculus. Prerequisite: Mathematics 110. *The Staff.*
A beginning course in differential calculus with some integration, infinite series.

355. Calculus. A continuation of Mathematics 354. *The Staff.*
Integral calculus and other more advanced topics.

401. Differential Equations. Prerequisite: Mathematics 355. *Mr. Barrow.*
Elementary differential equations with applications to geometry and physics.

402. Vector Analysis. Prerequisite: Mathematics 355. *Mr. Barrow.*
A study of vector methods and their physical applications.

410. Fundamental Ideas of Algebra. Prerequisite for Graduate credit: Mathematics 101 x-y and either two mathematics courses numbered over 300 or two years of teaching high school algebra. Graduate credit will be allowed toward the Master of Education degree only. *Mr. Huff.*
A course designed to help teachers of high school algebra. It will stress those fundamental ideas, some of which are modern, which determine the structure of elementary algebra.

*Senior division students may register for the higher numbered course.
**On leave.

412. College Geometry. Prerequisite for Graduate credit: Mathematics 101 x-y and two years of teaching high school geometry. Summer quarter only. *Mr. Barrow* or *Mr. Huff.*
A course in more advanced elementary geometry especially designed for prospective teachers of secondary school mathematics.

431. Theory of Numbers. Prerequisite: Mathematics 355. *Mr. Levit.*
Divisibility, prime numbers, congruences and residues.

441. Introduction to Higher Algebra. Prerequisite: Mathematics 355. *Mr. Huff* or *Mr. Levit.*
Theory of equations, polynomials, and determinants.

442. Introduction to Higher Algebra. Prerequisite: Mathematics 355. *Mr. Huff* or *Mr. Levit.*
Matrices, invariants, theory of elimination.

454 x-y. An Introduction to the Foundations of Analysis. 10 hours. Prerequisite: Mathematics 355. *Mr. Dyer.*
An accurate treatment of certain questions concerning continuity of a function, differentiation, Riemann integration, measure of linear point sets, and Lebesgue integration. Geometrical aspects of these concepts will be emphasized.

457. Calculus. Prerequisite: Mathematics 355. *Mr. Barrow.*
Improper integrals, approximate integration, partial differentiation, multiple integrals.

458. Advanced Calculus. *Mr. Barrow.*
Elliptic integrals, line integrals and Green's Theorem, Fourier series, implicit functions, functional determinants, calculus of variations.

461. Advanced Analytical Geometry. Prerequisite: Mathematics 355. *Mr. Huff.*
A careful introduction to the analytic geometry of Euclidean space, beginning with elementary propositions on real vectors.

462. Projective Geometry. Prerequisite: Mathematics 461.
The algebra of homogeneous co-ordinates; duality; cross-ratio; classification of projective transformations; configurations of lines and points; the conic.

470. Theory of Probability. Prerequisite: Mathematics 355. *Mr. Cohen* or *Mr. Fort.*
A rigorous and precise treatment of basic probability theory.

800. Theory of Infinite Processes. 3 hours. *Mr. Fort.*
Logical development of the ordinary number system, infinite sequences, infinite series, uniform convergence.

801. Theory of Infinite Processes. 3 hours. *Mr. Fort.*
Continuation of Mathematics 800.
Power series, Dirichlet series, Fourier series.

802. Theory of Infinite Processes. 4 hours. *Mr. Fort.*
Continuation of Mathematics 801.
Summability of series, theory of integrals, continued fractions.

810 a-b-c. Point Set Theory. 9 hours. Prerequisite: Mathematics 654 or consent of instructor. *Mr. Dyer.*
An axiomatic treatment of certain aspects of point set-theoretic analysis situs. A considerable degree of mathematical maturity is required.

811. Finite Differences. 3 hours. *Mr. Fort.*
Difference operators, summation of series, summation formulas, Bernouilli polynomials and numbers, interpolation.

814. Analytical Functions of a Complex Variable. 3 hours.

815. Analytical Functions of a Complex Variable. 3 hours.
Continuation of Mathematics 814.

816. Analytical Functions of a Complex Variable. 4 hours.
Continuation of Mathematics 815.

817. Ordinary Differential Equations. 3 hours. Prerequisite: Mathematics 401. *Mr. Fort.*
Existence and boundary value theorems; behavior of solutions in the neighborhood of singular points.

818. Partial Differential Equations. 3 hours. Prerequisite: Mathematics 817. *Mr. Fort.*
Existence and boundary value theorems; series representation of solutions.

826. Functions of a Real Variable. 3 hours. Prerequisite: Mathematics 816.

832. Theory of Numbers. 3 hours. Prerequisite: Mathematics 431. *Mr. Levit.*
Quadratic forms, diophantine equations, introduction to additive number theory.

833. Theory of Numbers. 3 hours. Prerequisite: Mathematics 832. *Mr. Levit.*
Quadratic fields, introduction to the general theory of algebraic numbers.

843. Modern Algebra. 3 hours. Prerequisite: Mathematics 442. *Mr. Huff* or *Mr. Levit.*
Domains, rings, fields, linear algebras.

844. Modern Algebra. 3 hours. Prerequisite: Mathematics 843. *Mr. Huff* or *Mr. Levit.*
Continuation of Mathematics 843.

845. Theory of Groups. 4 hours. Prerequisite: Mathematics 442. *Mr. Huff* or *Mr. Levit.*
Cyclic groups, groups with operators, Galois theory.

853. Mathematical Statistics. 3 hours. Prerequisite: Mathematics 458. *Mr. Cohen.*
Theory of estimation and testing hypotheses.

863. Algebraic Geometry. Prerequisite: Mathematics 462. *Mr. Huff.*
Groups of transformations; invariants; geometrics, algebraic curves.

864. Algebraic Curves. Prerequisite: Mathematics 863. *Mr. Huff.*
Theory of curves over the field of complex numbers, singularity of curves, genus.

891. Mathematics Seminar. 10 hours. Prerequisite: Undergraduate major in mathematics or equivalent and two quarters of graduate work in mathematics. *The Staff.*
A study by the seminar method of some phase of current research in mathematics.

STATISTICS

356. Statistics. Prerequisite: Mathematics 101x. *Mr. Cohen.*
An elementary course in statistics.

451. Mathematical Statistics. Prerequisites: Mathematics 355 and 356. *Mr. Cohen.*
The mathematical theory of statistical methods, probability, and sampling distributions.

452. Mathematical Statistics. Prerequisite: Mathematics 451. *Mr. Cohen.*
Continuation of Mathematics 451.

456. Advanced Statistical Methods. 3 hours. Prerequisite: Mathematics 356. *Mr. Cohen.*
Methods studied in Mathematics 356 will be covered from an advanced viewpoint and in more detail. Advanced applications from the physical, biological, and social sciences.

460. Statistical Methods of Quality Control. Prerequisite: Mathematics 101x, Mathematics 356 or Economics 312 for undergraduate credit; Mathematics 101x, Mathematics 102, Mathematics 356 or Economics 312, and Business Administration 351 for graduate credit. Graduate credit is given toward the M.B.A. degree only. *Mr. Cohen.*
A review of fundamental statistical concepts including frequency distributions, averages, measures of dispersion, the construction and use of the Shewhart Control Charts, and techniques of acceptance sampling.

MICROBIOLOGY

(See Bacteriology)

MODERN FOREIGN LANGUAGES

FRENCH

Head: Jordan: Staff: Alciatore, Chance, Downs, Jones, Peterson, Shedd, Terry, Williams, Womack.

*A student continuing a language taken in high school will be placed in the appropriate course on the basis of placement tests and other pertinent information.

**A student who has satisfied the language requirement for his degree in one foreign language may count the courses taken during his junior and senior years in any other foreign language, regardless of course numbers, towards his senior division requirement of 60 hours.

101-102. Elementary French. 10 hours. *The Staff.*
(Students in this course may be required to spend a minimum of one hour a week outside of class in the language laboratory.)
A course designed to teach the student to pronounce French, to conduct simple conversations, and to read texts within a limited vocabulary range. Oral practice, emphasis upon sentence patterns, and the fundamental principles of structure. (No credit is granted for French 101 without French 102 in the College of Arts and Sciences.)

103. Intermediate French. Prerequisite: French 102 or two entrance units in French. *The Staff.*
Intensive and extensive reading. Texts of moderate difficulty selected from well known authors. A rapid review of French grammar, irregular verbs, and idioms.

104. Intermediate French. Prerequisite: French 103 or its equivalent. *The Staff.*
Intensive and extensive reading of texts of marked literary merit. Pronunciation and conversation. Prepares students to read French in their specialized fields, to enter courses in French literature (201), or to enter courses in conversation and composition (106).

106. Intermediate French Conversation and Composition. Prerequisite: French 104. *The Staff.*
The emphasis is divided between conversation (three days a week) and composition (two days a week). The two phases of the course are correlated to promote the student's ability to express himself accurately whether in speaking or in writing French. A strongly suggested elective for anyone planning to major in French.

Any course numbered below 200 is considered elementary and will not count toward the minimum of 20 hours required in one subject for a major in language.

201. An Introduction to the Study of French Literature. Prerequisite: French 104. *Mr. Alciatore, Mr. Downs,* or *Mr. Jordan.*
A study of the main literary movements and major works of representative French writers from the twelfth through the seventeenth centuries.

202. An Introduction to the Study of French Literature (continued). Prerequisite: French 104. *Mr. Alciatore, Mr. Downs,* or *Mr. Jordan.*
A study of the main literary movements and major works of representative French writers of the eighteenth and nineteenth centuries.

French 201 and 202 are prerequisite to the following French courses except as indicated.

406. Introduction to Old French.

407. Medieval French Culture.

408. French Literature of the Renaissance. *Mr. Downs.*
Origins and development of the Renaissance in France, political and social influences, analysis of major works, reports, collateral readings, term paper.

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*For the language requirements for various degrees in the College of Arts and Sciences see page 109.

**This provision is subject to the rule that no student in the College of Arts and Sciences may receive credit for a 101 course if it is not followed by a 102 course in the same language.

430. The Romantic Movement in France. *Mr. Downs.*
The origins of the movement in France with the principal emphasis upon Rousseau, Charteaubriand, and Madame de Stael. Foreign influences. The formation of the cenacles. Chief literary manifestoes. Analysis of representative works: Lamartine, Hugo, Vigny, Musset, and minor poets—poetry, novels, and drama. Collateral reading, reports, and a term paper. This course is designed as the first of a series of three; it should be followed by 431 and 432.

431. The French Novel since Romanticism. *Mr. Alciatore.*
The novel as it evolved from Romanticism to Realism and from Realism to Naturalism. Analysis of subjective elements and of character development. The cult of form. The increasing influence of science. The reaction against Naturalism. Primary attention to Stendhal, Balzac, Flaubert, and Zola. Lectures and collateral reading. This course is designed to follow 430 and to correlate with 432.

432. French Drama and Poetry since Romanticism. *Mr. Alciatore.*
Baudelaire. The Parnassians: Leconte de Lisle and Heredia. The Symbolists: Verlaine, Mallarme, etc. The Mid-Nineteenth Century Social Drama of Dumas fils and Augier. Henri Becque. Antoine and the origins of the Little Theatre Movement. The Post-Naturalistic Drama of Maeterlinck, Porto Riche, Rostand, and others. Attention will be given at the end of this course to the development of French literature in all genres at the conclusion of the nineteenth century and the beginning of the twentieth century. Lectures, analysis of texts, collateral reading. This course is designed to follow 430 and to correlate with 431.

459. French Literature of the Seventeenth Century—First half. *Mr. Jordan.*
The growth of the Classic Ideal with emphasis on the political, religious, social, and artistic background of the period. The evolution of poetic and prose styles with emphasis upon Malherbe, Descartes, Pascal, and Bossuet. The development of the classic tragedy with Pierre Corneille. This course will not be arbitrarily limited to the literature before 1660 but will deal as fully as possible with such authors as Boileau and LaFontaine in order that 460 may concentrate on two writers only. Lectures, analysis of texts, collateral reading.

460. French Literature of the Seventeenth Century—Second half. *Mr. Jordan.*
This course will concentrate almost exclusively on Racine and Moliere. A study of dramatic techniques and an analysis of characters. Many plays will be read and discussed in class; others will be assigned for collateral reading. Lectures and criticism of texts. This course is designed to follow 459.

461. French Literature of the Eighteenth Century. *Mr. Downs* or *Mr. Alciatore.*
The growth of French rationalism. The growth of sensibility. Belles-Lettres. Bayle, Fontenelle, Montesquieu, Voltaire, Rousseau, Diderot, d'Holbach, Condillac, Helvetius; Marivaux, Lesage, Beaumarchais, Andre Chenier, and others. Lectures, collateral reading, analysis of texts.

556. Advanced French Syntax and Composition. No prerequisite beyond French 104. *Mr. Chance.*
Comprehensive review; suggested for teachers of French.

557. French Phonetics. Prerequisites: French 201-202 or French 106. *Mr. Downs.*
The organs of speech, the differences in production of French and English speech sounds, and the various speech phenomena, such as intonation, assimilation, linking, and the length of vowel sounds. Practice in phonetic transcription and pronunciation.

581. (Education) Problems of Teaching Romance Languages. Prerequisite: French or Spanish 201-202 or 15 hours of Education in addition to French or Spanish 104. *Mr. Shedd.*
History of method, psychology of language learning, values, objectives, teacher's library, technique of oral work, pedagogy of phonetics, phonetics applied to grammar, pedagogy of vocabulary and reading. Visual aids and realia, individual differences, tests and measurements. Evaluation of texts, course content.

802. Seminar in Seventeenth Century Classicism. *Mr. Jordan.*
One author to be selected for intensive study.

804. Seminar in Eighteenth Century Literature. *Mr. Downs.*
One author to be selected for intensive study.

811. Seminar on Romanticism. *Mr. Downs.*
Deals with one major writer of the Romantic Period.

812, 813, 814. Seminar on the Nineteenth Century Novel. *Mr. Alciatore.*
An intensive study of one novelist.

820. Seminar on 20th Century Literature. *Mr. Alciatore.*
An intensive study of one major 20th Century writer.

GERMAN

101-102. Elementary German. 10 hours. *Mr. Terry* and *Staff.*
(Students in this course may be required to spend a minimum of one hour a week outside of class in the language laboratory.)
Fundamentals of grammar, pronunciation, conversation, composition, reading, and translation. (No credit allowed for German 101 without 102 in the College of Arts and Sciences.)

103. Intermediate German. Prerequisite: German 102 or two entrance units in German. *Mr. Terry* and *the Staff.*
Grammar review, reading and translation of intermediate texts, composition, and conversation.

104. Intermediate German. Prerequisite: German 103. *Mr. Terry* and *the Staff.*
Extensive readings in modern German prose. Composition and conversation.

105. Intermediate German for Science Students. Prerequisite: German 102 or two entrance units in German. *Mr. Terry* and *the Staff.*
A course at the intermediate level designed for pre-medical students and majors in chemistry, physics, and zoology.

Any course numbered below 200 is considered elementary and will not count toward the minimum of 20 hours required in one subject for a major in language.

201. Introduction to German Literature. Prerequisite: German 104 or German 205. *Mr. Terry.*
A study of representative works of German literature from its beginning through the eighteenth century.

202. Introduction to German Literature (continued). Prerequisite: German 104 or German 205. *Mr. Terry.*
A study of the main literary movements and major works of representative German writers of the nineteenth and twentieth centuries.

205. Scientific German. Prerequisite: German 103 or 105. *Mr. Terry.*
Readings in chemical, medical, and biological German.

210. Advanced Conversation and Composition. Prerequisite: German 104.
Three recitations and two double periods for oral practice each week.

German 201 and 202 are prerequisite to the following German courses except as indicated.

430. The German Drama of the Nineteenth Century. 3 hours.
A study of the development of German drama in the nineteenth century; reading of selected plays from the period, including Kleist, Grillparzer, and Hebbel.

431. The German Novel of the Nineteenth Century. 3 hours.
A study of the principal works of Storm, Keller, Fontane, Meyer, and other German novelists of the nineteenth century.

432. Introduction to Goethe. 3 hours.
Study of Goethe's life, with lectures, reports, and readings from his poems, novels, and plays other than Faust.

433. Goethe's Faust. 3 hours.
Reading and interpretation of Part I of Faust.

434. German Literature to 1500. 3 hours.
A study of the principal works of German literature up to the Reformation.

435. Lessing and German Classicism. 3 hours.
A study of the plays and essays of Lessing, with especial attention to his influence on the development of German drama.

436. German Romanticism. 3 hours.
A study of the Romantic Period of German literature.

437. Introduction to Schiller. 3 hours.
The reading and study of the principal plays of the great German dramatist.

438. Contemporary German Literature. 3 hours.
A study of the literary movements of the twentieth century in Germany.

439. The German Lyric. 3 hours.
Extensive reading of German lyrics and ballads from the time of the Minnesingers to the present.

ITALIAN

101-102. Elementary Italian. 10 hours. *Mr. Alciatore* or *Mr. Downs.*
(Students in this course may be required to spend a minimum of one hour a week outside of class in the language laboratory.)
Grammar and composition, conversation, reading and dictation. (No credit is granted for Italian 101 without Italian 102 in the College of Arts and Sciences.)

103. Intermediate Italian. Prerequisite: Italian 102. *Mr. Alciatore* or *Mr. Downs.*
Intermediate grammar, reading, conversation, dictation, and composition.

104. Italian Grammar, Composition, and Conversation. Prerequisite: Italian 103. *Mr. Alciatore* or *Mr. Downs.*
Advanced grammar, reading, oral and written composition, conversation, dictation.

RUSSIAN

(Students are advised not to take Russian without two units or the equivalent in another language.)

101-102. Elementary Russian. 10 hours.
Grammar and composition, conversation, reading and dictation. (No credit is granted for Russian 101 without Russian 102 in the College of Arts and Sciences.)

103. Intermediate Russian. Prerequisite: Russian 102.
Intermediate grammar, reading, conversation, dictation, and composition.

104. Russian Grammar, Composition, and Conversation. Prerequisite: Russian 103.
Advanced grammar, reading, oral and written composition, conversation, dictation.

SPANISH

101-102. Elementary Spanish. 10 hours. *Mr. Williams* and *the Staff.*
(Students in this course may be required to spend a minimum of one hour a week outside of class in the language laboratory.)
Pronunciation, fundamentals of grammar, reading and conversation. (No credit is granted for Spanish 101 without Spanish 102 in the College of Arts and Sciences.)

103. Intermediate Spanish. Prerequisites: Spanish 101 or 102 or two entrance units in Spanish. *Mr. Shedd* and *the Staff.*
A rapid review of Spanish grammar, irregular verbs, and idioms. Intensive and extensive reading.

104. Intermediate Spanish. Prerequisite: Spanish 103. *Mr. Shedd* and *the Staff.*
Intensive and extensive reading of texts of marked literary merit. Pronunciation and conversation. Prepares students to read Spanish in their specialized fields to enter courses in Spanish literature (201) or to enter courses in conversation and composition (106).

106. Spanish Conversation and Composition. Prerequisite: Spanish 104. *The Staff.*
The emphasis is divided between conversation (three days a week) and composition (two days a week). The two phases of the course are correlated to promote the student's ability to express himself accurately whether in speaking or in writing Spanish. A strongly suggested elective for anyone planning to major in Spanish.

Any course numbered below 200 is considered elementary and will not count toward the minimum of 20 hours required in one subject for a major in language.

201. Introduction to Spanish Literature. Prerequisite: Spanish 104. *Mr. Shedd* or *Mr. Williams.*
A study of representative works of Spanish literature from its beginning through the Golden Age.

202. Introduction to Spanish Literature (continued). Prerequisite: Spanish 104. *Mr. Shedd* or *Mr. Williams.*
A study of representative works of Spanish literature from the Golden Age to the present.

306. Spanish Commercial Correspondence and Advanced Conversation. Prerequisite: Spanish 104. *Mr. Shedd.*
A study of special forms and construction of business letters with conversation based on Spanish-American material.

308. Spanish Language Workshop. Prerequisite: Spanish 103 and the recommendation of the Department of Modern Foreign Languages. *Miss Peterson.* (Offered in Mexico City during the summer quarter.)
A study of oral and written Spanish with particular emphasis upon current idiomatic expression. Students will be trained to speak with accuracy and facility in normal conversations. They will be trained also to write Spanish using correct grammatical constructions.

Spanish 201 and 202 are prerequisite to the following Spanish courses except as indicated.

420. The Modern Spanish Novel. *Mr. Williams.*
A study of trends of the Spanish novel of the nineteenth and twentieth centuries.

421. The Drama of the Golden Age. *Mr. Shedd.*
A study of the principal dramatists and their works with particular emphasis on Lope de Vega, Tirso de Molina, Ruiz de Alarcon, and Calderon de la Barca.

422. Spanish Prose of the Golden Age. *Mr. Williams.*
A study of the novel and short story of this period with emphasis on Cervantes.

423. The Drama of the Nineteenth Century. *Mr. Williams.*
A study of the principal trends in the development of the drama with reading from representative authors. Particular emphasis on the Romantic Drama and the Comedy of Manners.

424. Spanish Prose Before the Golden Age. *Mr. Williams.*
A study of the exemplar collections, La Celestina, the chivalresque, sentimental, and Moorish novel.

425. The Modern Drama. *Mr. Williams.*
A study of representative writers and their works from Perez Galdos to the present day.

427. Spanish Poetry to 1700. *Mr. Shedd.*
A study of the development of poetry, its sources and forms, with particular attention to the epic and ballad.

429. Spanish Poetry since 1700. *Mr. Shedd.*
A study of poetry with particular reference to its development in the nineteenth century.

430. Spanish-American Poetry. *Mr. Shedd.*
A study of the contribution of the Spanish-American nations to the development of poetry. Readings from representative poets of the several countries.

431. Spanish-American Prose. *Mr. Shedd.*
A study of the essay and novel as developed in the Spanish-American nations. Readings from representative writers of the several countries.

433. Introduction to Old Spanish. *Mr. Shedd.*
Phonology, morphology, and selected readings to illustrate the development of the Spanish language.

526. Advanced Spanish Syntax and Composition. *Mr. Shedd.*
A study of grammatical forms and usages with particular reference to the needs of those preparing to teach.

528. Spanish Phonetics. *Mr. Williams.*
A study of the organs of speech, the differences in production of Spanish and English speech sounds, and the various speech phenomena. Practice in phonetic transcription, pronunciation, and intonation.

581. (Education) Problems of Teaching Romance Languages. Prerequisite: French or Spanish 201-202 or 15 hours of Education in addition to French or Spanish 104. *Mr. Shedd.*
History of method, psychology of language learning, values, objectives, teacher's library, technique of oral work, pedagogy of phonetics, phonetics applied to grammar, pedagogy of vocabulary and reading. Visual aids and realia, individual differences, tests and measurements. Evaluation of texts, course content.

808. Cervantes. *Mr. Williams.*
A study of Cervantes' work with emphasis on Don Quixote and the Exemplary Novels.

809. The Modernista Movement in Spanish-America. *Mr. Shedd.*
A study of Ruben Dario, his contemporaries and followers.

810. Gaucho Literature. *Mr. Shedd.*
A study of the Gaucho Poetry, Prose, and Drama.

MUSIC

Head: Hodgson. Staff: Altvater, Anderson, Beach, Dunaway, Harwell, Karlas, Kimble, Kratina, *Main, Mitchell, Sherman, Shetney, Warner.

THEORETICAL COURSES

(For Music Students)

9. Elements and Fundamentals of Music. No credit. (Meets five times a week.) Especially designed for students with insufficient high school preparation. *Theory Staff.*

10. Fundamentals of Music. 3 hours. (Meets five times a week). *Theory Staff.*
A student expecting to take this course must take an examination. If he does not qualify, he must take the preparatory course, Music 9.

11. Theory: Instruction to Harmony, Sight-Singing, and Dictation. 3 hours. (Meets five times a week.) Prerequisite: Music 10 or examination. *Theory Staff.*
Includes part-writing of all triads, sight-singing, dictation, and keyboard harmony.

12. Theory: Elementary Harmony, Sight-Singing, and Dictation. 3 *hours.* (Meets five times a week.) Prerequisite: Music 11. *Theory Staff.*
Part-writing of triads in inversions, sight-singing, dictation, and keyboard harmony.

34. Theory: Intermediate Harmony, Sight-Singing, and Dictation. 3 hours. (Meets five times a week.) Music 12. *Theory Staff.*
Secondary seventh chords and inversions, sight-singing, dictation, and keyboard harmony.

35. Theory: Intermediate Harmony, Sight-Singing, and Dictation. 3 hours. (Meets five times a week). Prerequisite: Music 34. *Theory Staff.*
Altered chords, ninth chords, augmented sixth chords, sight-singing, dictation, and keyboard harmony.

36. Theory: Advanced Harmony. 3 hours. (Meets five times a week.) Prerequisite: Music 35. *Theory Staff.*
Modulation, chromatic harmony, modal harmony, survey of modern techniques.

333. Advanced Theory and Exercises in Composition. Prerequisite: Music 36. *Mr. Main.*
An introduction to contemporary musical techniques for the performer and the composer.

370. Form and Analysis. Prerequisite: Music 34, 35, 36. *Mr. Anderson* or *Miss Kimble.*
Harmonic and polyphonic forms analyzed. Special stress given sonata form and Bach's "Well-Tempered Clavier." Students encouraged to write originally in forms thus analyzed.

371. Counterpoint. Prerequisites: Music 34, 35, 36 and 370. *Mr. Anderson* or *Mr. Main.*
The contrapuntal styles and techniques of the Renaissance.

372. Advanced Form and Analysis. Prerequisite: Music 370. *Mr. Anderson* or *Miss Kimble.*

373. Advanced Sight-Singing and Dictation. Prerequisite: Music 36. *Mr. Anderson.*

374a-b. Orchestration. 6 hours (3 hours per quarter). Prerequisite: Music 370. *Mr. Main* and *Mr. Mitchell.*
Principles and practices of instrumentation for chamber music, orchestra, marching and concert bands.

475. Advanced Counterpoint. Prerequisite: Music 371. *Mr. Sherman.*
Late Baroque contrapuntal techniques and styles.

476 a-b-c. Composition. 6 hours (2 hours per quarter). Prerequisite: Music 370, 371, 333 and consent of instructor. *Mr. Sherman.*
Writing in smaller forms.

*On leave.

MUSIC LITERATURE COURSES

(Open to All Students)

3. Appreciation of Music. 3 hours. (One hour each quarter.) One lecture recital a week. Open to the public. *Mr. Hodgson.*
Credit given only to students taking another theoretical music course. Special permission from director required before registering for credit.

22 a-b-c. History of Music. 6 hours (2 hours per quarter). *Miss Kimble.*
A literature course for music students.

340. Development of Opera. 3 hours. (For Summer Quarter.) *Mr. Hodgson* or *Mr. Warner.*
A general literature course in the appreciation of the entire field of opera. Illustrations from selected scores played in class.

343. Listener's History of Music. 3 hours. *Mr. Anderson.*
For the student untrained musically, who wishes to acquire an intelligent appreciation of art.

350. Development of Opera. *Mr. Warner.*
A general literature course in the appreciation of the entire field of opera. Illustrations from selected scores played in class. Not open to students who have had 340.

353. History of Piano and Voice Literature. 3 hours. *Miss Karlas* and *Mr. Warner.*

358. History and Analysis of Musical Style. *Miss Harwell* and *Mr. Hodgson.*
Designed especially for art majors.

442. Wagner's Music Dramas. 3 hours. Prerequisite for graduate credit: Music 22 or equivalent and two music courses numbered 200-399. *Mr. Hodgson* and *Miss Harwell.*
A course of literary and cultural value, concentrating on a detailed study of the plots and themes of all the Wagner operas, with scores played in class.

455. Music Literature Survey and Advanced Music History. Prerequisite: Music 22 a-b-c, and 10 hours of music literature. *Mr. Anderson.*

456. Bach-Beethoven-Brahms. 3 hours. Prerequisite for graduate credit: Music 22 or equivalent, and two music courses numbered 200-399. *Miss Harwell* or *Miss Karlas.*
A detailed study of the three composers, with their masterpieces performed in class.

457. Beethoven Symphonies. 3 hours. Prerequisite for graduate credit: Music 22 or equivalent, and two music courses numbered 200-399. *Mr. Hodgson* and *Miss Kimble.*
A detailed study of the nine symphonies of Beethoven.

460. Modern Music. 3 hours. (For Summer Quarter.) Prerequisite for graduate credit: Same as for Music 457. *Mr. Hodgson* or *Mr. Main.*
A literature course illustrating modern trends in music of Schoenberg, Stravinsky, Bartok, Scriabin and others.

462. Modern Music. Prerequisite for graduate credit: similar to Music 460. *Mr. Hodgson* or *Miss Kimble.*
A literature course illustrating modern trends in music of Schoenberg, Stravinsky, Hindemith, Bartok, Scriabin and others.

METHODS COURSES

(For Music Education Students)

251. String Methods. 2 hours. Basic principles as applied to all strings. *Mr. Altvater* and *Mr. Kratina.*

252. Woodwind Methods. 2 hours. Basic principles as applied to all woodwinds. *Mr. Beach.*

253. Brass Methods. 2 hours. Basic principles as applied to all brasses. *Mr. Mitchell.*

263 a-b-c. Music Laboratory. 3 hours. (1 hour per quarter). *The Staff.*
Laboratory for minor instruments, voice, conducting. One quarter chorus, one band, one orchestra.

302. Methods of Teaching Public School Music. For Education majors only. *The Staff.*
A course of music fundamentals designed for grade teachers.

312. Public School Music for Elementary Grades. For Music majors. Prerequisite: Music 12. *Mr. Beach.*

313. Music in the Junior and Senior High Schools. Prerequisite: Music 12. *Mr. Beach.*

314-315. Supervised Teaching of Public School Music. 5 hours each. Prerequisites: Music 312-313. *Mr. Beach.*

362 a-b-c. Elementary Conducting. 6 hours. (2 hours per quarter). Prerequisite: Music 36. *The Staff.*
Principles of conducting and interpretation with vocal and instrumental ensembles.

365. Survey of Choral Music and Technique of Choral Conducting. *Mr. Warner* or *Mr. Mitchell.*

389. Voice Class. 2 hours. *Mr. Shetney* and *Mr. Warner.*
Study of basic principles of voice production and how to apply them in glee clubs and choruses.

714. Workshop for Problems for Teachers in Music Education. *Mr. Shetney* and *Mr. Mitchell.*
Course designed to meet the needs of elementary school teachers, instructional supervisors, and music teachers.

731. Problems in Vocal Music Education. 3 hours. Prerequisite: Music 312 and 313. *Mr. Beach.*
Detailed study of voice problems from classroom point of view beginning in elementary and continuing through secondary school; technique used in choral ensembles; evaluation of present concepts and practices.

732. Problems in Instrumental Music Education. 3 hours. Prerequisite: Music 312 and 313. *Mr. Beach.*
Study of techniques used for development of the instrumental music program beginning in elementary and continuing through secondary school; diagnosis of problems relating to strings, woodwinds, brasses, percussion.

733. Music Administration and Curriculum. 3 hours. Prerequisite: Undergraduate requirements in education, Music 312 and 313. *Mr. Beach.*
Development of music curriculum as part of general education planning; evaluation of school curricula and how music can become a functional part; problems in music administration, personnel, finance, equipment.

734. Choral Music Materials. 3 hours. Prerequisite: Music 312 and 313. *Mr. Warner.*
Study and evaluation of music literature available for use in public schools at all levels of instruction; research in various mediums and schools of composition which can be adapted for school use.

735. Instrumental Music Materials. 3 hours. Prerequisite: Music 312 and 313. *Mr. Beach.*
Evaluation of materials available at all levels of instruction for band, orchestra and chamber music; research in materials of various mediums and schools of composition which can be adapted for school use.

APPLIED MUSIC COURSES

(Primarily for Music Majors)

The following courses are offered to enable the talented students who wish to devote a large amount of time to practical work to earn a limited amount of credit. Transfer credits will be accepted tentatively but must be validated by examination or by completion of advanced work in residence. The maximum amount of credit allowed on any degree for this work is 24 quarter hours (only six quarter hours per year).

Before registering for Applied Music courses students must consult with the Head of the Music Department.

Laboratory fees vary from $20 to $70 for the following courses:

71 a-b-c. APPLIED MUSIC. 6 hours (2 hours per quarter). Two half-hour private lessons a week for three quarters. Laboratory fee course.

72 a-b-c. APPLIED MUSIC. 6 hours (2 hours per quarter). Prerequisite: Music 71 a-b-c. Two half-hour private lessons a week for three quarters. Laboratory fee course.

85 a-b-c. APPLIED MUSIC. 3 hours (1 hour per quarter). One half-hour private lesson a week for three quarters. Laboratory fee course.

86 a-b-c. APPLIED MUSIC. 3 hours (1 hour per quarter). Prerequisite: Music 85 a-b-c. One half-hour private lesson a week for three quarters. Laboratory fee course.

87 a-b-c. APPLIED MUSIC. 3 hours (1 hour per quarter). One half-hour lesson a week for three quarters. Laboratory fee course.

88 a-b-c. APPLIED MUSIC. 3 hours. (1 hour per quarter). Prerequisite: Music 87 a-b-c. One half-hour lesson a week for three quarters. Laboratory fee course.

273 a-b-c. APPLIED MUSIC. 6 hours (2 hours per quarter). Prerequisite: Music 72 a-b-c. Two half-hour private lessons a week for three quarters. Laboratory fee course.

274 a-b-c. APPLIED MUSIC. 6 hours (2 hours per quarter). Prerequisite: Music 273 a-b-c. Two half-hour private lessons a week for three quarters. Laboratory fee course.

287 a-b-c. APPLIED MUSIC. 3 hours (1 hour per quarter). Prerequisite: Music 86 a-b-c. One half-hour private lesson a week for three quarters. Laboratory fee course.

288 a-b-c. APPLIED MUSIC. 3 hours (1 hour per quarter). Prerequisite: Music 287 a-b-c. One half-hour private lesson a week for three quarters. Laboratory fee course.

289 a-b-c. APPLIED MUSIC. 3 hours (1 hour per quarter). Prerequisite: Music 88 a-b-c. One half-hour private lesson a week for three quarters. Laboratory fee course.

290 a-b-c. APPLIED MUSIC. 3 hours (1 hour per quarter). Prerequisite: Music 289 a-b-c. One half-hour private lesson a week for three quarters. Laboratory fee course.

485 a-b-c. APPLIED MUSIC. 3 hours (1 hour per quarter). To be used for any weaknesses in applied music for graduate candidates.

Extracurricular practical courses in piano technique, piano keyboard harmony, and ensemble playing are given to students without fee.

ENSEMBLE COURSES

387. UNIVERSITY CIVIC SYMPHONY ORCHESTRA. 6 hours (1 hour per quarter). Two hours per week for two years. Open to students who can qualify for symphony orchestra. *Mr. Sherman.*

A maximum of six hours in ensemble courses is allowed toward graduation.

388. A CAPPELLA CHOIR. 6 hours. (1 hour per quarter). Two hours per week for two years. Open to students who can qualify for serious choral study. *Mr. Shetney.*

390. UNIVERSITY BAND. 6 hours (1 hour per quarter). Three hours per week for two years. Open to students who can qualify and who will give this time in addition to the time credited to military science. *Mr. Mitchell.*

COURSES COMBINED WITH OTHER DEPARTMENTS

451. MUSIC AND LITERATURE. *Mr. Brown.*

A comparative study of the forms, relationships, and aesthetics of music and literature. Admission by consent of the instructor.

GRADUATE COURSES

736. Editing and Arranging. 3 hours. Prerequisites: Music 33, 374. *Mr. Mitchell.*

Evaluation of representative instrumental and vocal published scores. A study of how to adapt them to specific groups; transcription for large or small ensembles; studies in timbre, color, qualities, etc. of instruments and voices; arranging accompaniments.

737. Score Analysis. 3 hours. Prerequisites: Music 36, 370. *Mr. Anderson* and *Mr. Mitchell.*

Learning techniques of harmonic and formal analysis and preparation of scores for rehearsal.

738. Advanced Conducting. 3 hours. Prerequisites: Music 363, 370. *Mr. Main* and *Mr. Warner.*

Developing conducting technique in rehearsing laboratory; survey and evaluation of materials on conducting.

777. Applied Music. 5 or 10 hours. Open to piano or voice graduates by consent of Head of the Department. Preparation of recital program, intensive study of repertoire, and preparation of recommended works for public performance.

875. Research Seminar. 5 or 10 hours. Admission by consent of the Head of the Department.

878. Seminar in Sacred Music Literature. 5 or 10 hours. Prerequisites: ten hours of senior division music literature courses. *Mr. Hodgson, Mr. Mitchell.*

Historical development of the large forms of sacred music; the oratorio, the cantata, the passion. Study of the literature.

879. Advanced Composition. 5 or 10 hours. Prerequisite: Music 476. Use of various forms. Public performance of major original composition in large form. *Mr. Main.*

880. The Symphony after Beethoven. 5 to 10 hours. Prerequisites: Ten hours of senior division music literature courses. *Mr. Hodgson, Mr. Mitchell.*

Historical development of the symphony. Study of important scores. Analysis of masterpieces for the orchestra. Study of orchestral development.

NURSING

Head: Grant. Staff: Coffield*, Ditchfield*, McDermott, Ritter**

Basic Baccalaureate Courses

100. History of Nursing. 3 hours.

A survey of the developments in early and more recent nursing history with special thought given to nursing literature, history of nursing education, international aspects of nursing, public health nursing and professional organizations.

110. Nursing as a Profession. 2 hours.

This course is designed to orient the student to the present philosophy of nursing and the concepts of nursing education upon which programs are built. The relationship of nursing to the social order, and the responsibility of the individual nurse to society are considered. The influence of our historical heritage and evolving professional needs and demands are discussed. The nurse as an individual who has insight and understanding of herself and her adjustment in today's world is emphasized.

111. Individual Health Appraisal. 1 hour.

This course is intended to help the student understand the health needs of the individual. This is used as a basis for improving her own health and for teaching the principles of health to others. The individual's health is considered in relation to such factors as home environment, occupation, health information, and the availability of health services.

112. Nursing and Community Health. 3 hours.

This course emphasizes the need for the nurse to know and to make use of community health services in order that she may be more effective in her health teaching as it relates to the promotion of health and the prevention of disease. The dis-

*Atlanta Division.
**Supervisor Field Experience Center, D. C. General Hospital, Washington, D. C.

cussions will include the organization and administration of public agencies; the control of major public health problems, environmental sanitation; and the use of vital statistics in health programs.

Major Courses in Nursing Education for Instructors of Nursing Arts, Assistant Clinical Instructors or Head Nurses, and Clinical Instructors or Supervisors.

1. Medical Calculations.
The study of weights and measurements, calculations involving percentage, solutions, dilutions and concentrations, specific gravities, metric and apothecaries' systems. A review of the action of drugs on the human body as related to the nursing field.

200. Preventive Medicine and Public Health. 3 hours. (Also in basic program).
A study of organized programs which are designed to control and combat conditions that affect the health of the individual family and community; the organization and administration of private and public agencies; communicable disease control, legislation and regulation; morbidity and mortality statistics, and an interpretation of the socio-economic factors relative to health programs.

321. History of Nursing Education. 3 hours.
This course is desirable for all nursing education majors. It deals with the development of nursing with special consideration given to trends in nursing and nursing education. The outstanding professional, social, and economic factors relating to the trends will be stressed and also the individual and group responsibility for promoting professional development.

323. Public Health Nursing. 3 hours.
An over-view of the scope, objectives, principles, and practices of public health nursing in rural and urban agencies, under public and private auspices. Experience in the out-patient service and clinics will be arranged wherever possible.

324. Curriculum of the School of Nursing. 3 hours.
The application of principles of curriculum construction to the school of nursing curriculum, content of courses, class and ward schedules as related to the rotation of the student nurse in her clinical instruction, records including the evaluation of the student's work.

325. Ward Management and Clinical Teaching.
This is an intensive course in the principles of management, personnel management, hospital organization, place of the hospital in the community and its relation to other health and social agencies, objectives of ward management, principles and methods of clinical teaching, discussion of rotation between and within clinical services, routines, equipment and supplies essential to clinical nursing practice.

326. Guidance in Nursing Education. 3 hours.
This course is designed to aid the graduate nurse, head nurse, supervisor, teacher of nursing arts, and administrator to develop a personal working philosophy of the role of guidance in education and to acquire understanding of and skill in technique in guidance that may be effectively used in schools of nursing.

327. Principles and Methods of Teaching as Applied to Nursing.
The principles and methods of teaching in a school of nursing and in public health. This course will consider the organization of teaching plans, integration of social and health aspects in the care of the patient, measurement of student achievement, techniques in the practice of nursing in the care of the patient in the hospital and in the home.

328. Teaching of Nursing Art. 3 hours.
A study of the principles and methods used in teaching nursing. The students will be expected to plan a course for either classroom or ward teaching and to demonstrate nursing procedures. Attention will be given to the modification of nursing procedures to meet the emergency needs or situation without jeopardizing the safety of the patient.

346, 347, 348. Directed Observation and Practice in Teaching the Nursing Arts. 15 hours.
Includes the seminar in health, mental, and social aspects of nursing. The prerequisites for the field work are the curriculum of the schools of nursing, principles and methods of teaching applied to nursing, and the teaching of nursing arts.

346, 347, 348. Directed Observation and Practice in Ward Management and Clinical Teaching. 15 hours.
Includes the seminar in health, mental, and social aspects of nursing. The prerequisites for the field work are the curriculum of the schools of nursing, principles and methods of teaching applied to nursing; and ward management and clinical teaching.

349. Principles of Public Health Nursing.
A course designed to give an understanding of the continuity of nursing care. A brief survey of Public Health Nursing, including the principles involved as well as the trends in Public Health Nursing, with emphasis placed on the responsibility of the nurse as a member of the community health team.

350. Methods of Teaching Public Health Nursing.
The factors involved in applying principles and learning methods in Public Health Nursing as they apply to activities within the community, home, school, health center and other groups, emphasizing the acceptance of responsibility by the individual or group for individual and/or public health.

PHILOSOPHY

(Meigs Hall, North Campus)

Head: Pfuetze. Staff: Gotesky.

104. Introduction to Philosophy. *The Staff.*
The fundamentals of philosophy, the meaning and function of philosophy, the vocabulary and problems of philosophy, and the relation of philosophy to science, art, and religion. Includes a survey of the basic issues and major types in philosophy, and shows their sources in experience, history, and representative thinkers.

305. Ethics. *Mr. Pfuetze.*
A study of moral philosophy in its bearing on human conduct and social relations, including an analysis of the nature and criteria of good and evil, right and justice, moral obligation and freedom. Issues of personal and social ethics are discussed in the light of readings in the classical moralists and in contemporary literature.

356. History of Philosophy, Ancient and Medieval. *Mr. Gotesky.* (Offered in alternate years. Not offered in 1955-56.)
An historical introduction to philosophy, tracing the development of European philosophy from the time of the early Greeks through the Renaissance.

357. History of Philosophy, Modern. Prerequisite: Philosophy 104 or 356. *Mr. Gotesky.* (Offered in alternate years. Not offered in 1955-56.)
Traces the development of European philosophy up to the nineteenth century.

358. Modern Logic. *Mr. Gotesky.*
A study of deductive reasoning, both sentential and class. Consideration is given to the more frequently used logical formulae for reasoning with sentences and classes; the uses of language, logical, emotional and volitional; the making of definitions; and the logical fallacies.

399. Philosophy and Society. (For Seniors only. Required of all candidates for A.B. and B.S. degrees.) *Mr. Pfuetze.*
An integrative survey course stressing value theory, designed to help students develop a philosophy adequate for modern living. Attention is focused upon a critical examination of great contemporary issues and the values by which modern men can live. Emphasis on the place that moral, aesthetic, and religious influences occupy in society.

406. (Religion) Hebrew-Christian Ethics. *Mr. Ayers* and *Mr. Pfuetze.*
An historical and interpretative survey of the social and ethical teachings of the Hebrew prophets, Jesus, and the Christian church; the relevance of this ethical pattern for the social problems, conflicts, and institutions of contemporary life. A sequel to Philosophy 305, but may be taken independently. (Given in cooperation with the Department of Religion.)

408. (Religion) Philosophy of Religion. *Mr. Pfuetze.*
The branch of philosophy that inquires into the origin, nature, function, and value of religion; examines the source and validity of the claims which religion makes; studies the fundamental religious problems and concepts as they find expression in Western religious philosophies, such as Judaism, Catholicism, Protestantism, Modernism, Agnosticism, Ethical Idealism, and Humanism.

409. Literature of Ancient and Medieval Philosophy. *The Staff.* (Offered in alternate years.)
A course in the primary works of great philosophers of ancient and medieval times, especially the writings of Plato and Aristotle.

410. Literature of Modern and Contemporary Philosophy. Prerequisite: Philosophy 104 or 356. *The Staff.* (Offered in alternate years.)
Selected readings in important philosophers, modern and contemporary.

411. Aesthetics. *Mr. Gotesky.*
The philosophy of the beautiful and of aesthetic values in art, literature, music, or wherever found. An analysis of aesthetic experience and of aesthetic types. Covers

the nature, origin, psychological and social foundations of art, both practical and fine. Particular emphasis is placed upon the role of social ideas and cultural circumstances in the growth and decline of the various arts.

450. Contemporary Philosophy. Prerequisite: At least one course in philosophy other than 358. *Mr. Gotesky.*

The third course in the History of Philosophy sequence, but may be taken independently. Selected readings in important philosophers of the 19th and 20th centuries, including such thinkers as Nietzsche, Mill, Marx, Spencer, Bergson, James, Royce, Dewey, Whitehead, and Santayana. The program is left flexible to allow for the divergent interests and needs of students and to permit consideration of significant current material.

458. Advanced Logic. Prerequisite: Philosophy 358. *Mr. Gotesky.*

An advanced course dealing with both traditional and modern methods in logic, especially the contributions of symbolic and mathematical logic.

459. Logic of Induction. *Mr. Gotesky.*

A study of the methods, principles, and problems of inductive reasoning, including the nature of probable inference, techniques of verification, and the structure of scientific explanation.

For descriptions of the following courses in Political Philosophy, refer to the offerings in Political Science.

485. (Political Science) Political Philosophies of Ancient, Medieval, and Early Modern Times. *Mr. Parthemos.*

486. (Political Science) Political Philosophies of Recent Times. *Mr. Parthemos.*

PHYSICS AND ASTRONOMY**

(Physics Building, North Campus)

Head: Dixon. Staff: Barr, Benson, Burkhalter, Cooper, Henry, Sears.

ASTRONOMY

391. Descriptive Astronomy. Prerequisites: Phyiscal Science 1, Physics 20, or equivalent. Four lecture and one two-hour laboratory periods per week. *Mr. Barr, Mr. Burkhalter,* and *Mr. Dixon.*

This course is designed for the general student who desires to acquaint himself, or herself, with the stars, the members of the solar system, their motions and constitution. The laboratory and observing work of this course includes exercises with the celestial globe, a series of star maps, observations with a three-inch telescope (equatorial), and measurements of latitude and longitude with a sextant.

PHYSICAL SCIENCE

1. Physical Science. No credit will be allowed for Physical Science 1 if a student shows credit for Physics 20. *The Staff.*

A survey, the objectives of which are: (1) to give an elementary knowledge of the most fundamental facts, laws, theories, and hypotheses of physics and astronomy and the main practical applications of these sciences in our daily lives; (2) to give some idea of the meaning and value of the scientific method and how physical science has modified man's ways of thinking and manner of living.

PHYSICS

20. Physics Survey. Not open to students who have credit for Physical Science 1. *The Staff.*

An elementary study of the fundamentals of physics with a study of some of the simpler applications of physics. The laboratory period of two hours a week will be devoted to measurements designed to give an introduction in laboratory methods.

26(226*). General Physics—Heat, Sound, and Light. 6 hours. Four recitations and four hours of laboratory. Prerequisite: Physical Science 1. *The Staff.*

A course in that part of physics dealing with the fundamental laws of heat, light, and sound. Physical Science 1 students should take this course instead of Physics 28.

** Students may be held responsible for breakage in laboratory courses.

*Senior division students with 10 hours of credit in physics may register for the higher number.

27(227*). General Physics—Mechanics. Four hours of recitation and two hours of laboratory work. Prerequisite: Physical Science 1, Physics 20, or equivalent. *The Staff.*

A course in that part of physics that deals with the fundamental laws of mechanics.

28(228*). General Physics—Heat, Sound, and Light. Four hours of recitation and two hours of laboratory work. Prerequisite: Physics 20 or equivalent. *The Staff.*

A course in that part of physics dealing with the fundamental laws of heat, sound, and light. Physical Science 1 students should take Physics 26 rather than this course.

329. General Physics—Electricity and Modern Physics. Four hours of recitation and two hours of laboratory work. Prerequisite: Physics 27 or Physics 28. *The Staff.*

A course in that part of physics dealing with the fundamental laws of electricity and the newest developments in the general field of physics.

332. Experimental Electricity. Three hours of recitation and four hours of laboratory work. Prerequisite: Physics 329. *Mr. Dixon.*

A course of intermediate grade in electrical measurements.

333. Sound and Light. Three hours of recitation and four hours of laboratory work. Prerequisite: Physics 26 or Physics 28. *Mr. Cooper.*

An intermediate course stressing experimental work on reflection, refraction, interference, diffraction, and polarization of light.

334. Advanced Heat. Four hours of recitation and two hours of laboratory work. Prerequisite: Physics 26 or Physics 28. *Mr. Henry.*

The material in this course includes temperature and its measurement, specific heats, thermal expansion, transfer of heat by conduction, convection and radiation, the states of matter, elementary thermodynamics, production of high and low temperatures.

345. Acoustics. Four hours of recitation and two hours of laboratory work. Prerequisites: Physics 26 or 28 or equivalent and Mathematics 101 x-y or equivalent. *Mr. Dixon.*

The production, transmission, reflection, absorption, and the general effects of sound will be studied in this course.

370. Principles of Photography. Three hours of recitation and four hours of laboratory work. Prerequisite: Physical Science 1, Physics 20, or the equivalent. Will not count toward the minimum of 20 hours required in one subject for a major in physics. Supply deposit, $10.00. *Mr. Dixon.*

An elementary approach to the factors involved in the choice of a camera, the exposure and the development of the film, the production of contact prints, the enlargement of prints, and color photography.

380. Electronics. Two hours of recitation and six hours of laboratory work. Prerequisites: Physical Science 1, Physics 20, or equivalent, and elementary algebra. Will not count toward the minimum of 20 hours required in one subject for a major in physics. *Mr. Burkhalter* and *Mr. Dixon.*

A study of the sources, methods of control, and the applications of electrons. This is a practical course rather than a theoretical one; it is designed primarily for students who expect to make practical applications of their knowledge of electronics.

404. Theoretical Mechanics. Five recitations per week. Prerequisites: Physics 27 and Mathematics 355. *Mr. Burkhalter* and *Mr. Dixon.*

The material presented includes advanced fundamental concepts, rectilinear motion of a particle, curvilinear motion in a plane, particle dynamics from the point of view of energy, statics of a particle, statics of a rigid body, and the dynamics of a rigid body. An attempt is made to emphasize the fundamental importance of mechanical principles in their application to all the fields of physics.

434. Thermodynamics and Kinetic Theory. Five recitations per week. Prerequisites: Physics 334 and Mathematics 355. *Mr. Barr* and *Mr. Dixon.*

A study of the laws of thermodynamics and their application in the fundamental concepts of physics with an introduction to statistical theories as applied to the behavior of gases.

461. Electrical Circuit Theory. Four hours of recitation and two hours of laboratory work. Prerequisite: Physics 332 and Mathematics 354-355 or the equivalent. *Mr. Burkhalter* and *Mr. Dixon.*

A course in electrical circuit theory including the theory of vacuum tubes, gas-filled tubes and transitors.

471. Advanced Electricity. Five recitations per week. Prerequisites: Physics 332 and Mathematics 335. *Mr. Burkhalter* and *Mr. Dixon.*

The laws of electrostatics and magnetostatics are developed with the aid of Gauss's theorem, Stokes' Theorem, etc. The course develops through the laws of Biot-Savart and Ampere to Maxwell's equations. From Maxwell's equations are derived the properties of electromagnetic radiation and propagation through a wave guide.

472. Nuclear Structure. Five recitation hours. Prerequisites: Physics 332, 333, and Mathematics 355. *Mr. Burkhalter* and *Mr. Dixon.*

This course is designed to introduce the students to the structure of atomic nuclei as they have been inferred from the study of experimental data on natural radioactivity, nuclear interactions, electromagnetic radiations and ionization.

481. Spectroscopy. Five recitations per week. Prerequisite: Physics 333 and Mathematics 355. Desirable parallel course: Physics 472. *Mr. Cooper* and *Mr. Sears.*

This course will present a survey of the results of experimental spectroscopic analysis and their theoretical interpretation. The spectrum and corresponding energy level diagram of the hydrogen atom will be considered both according to Bohr's Theory and in the light of the new Wave Mechanics. With the introduction of the vector model the alkali spectra will be studied. The Zeeman and Stark effects will be treated and Pauli's exclusion principle will be applied to the building up principle of the periodic system.

800. Spectra of Diatomic Molecules. Five recitations per week. Prerequisite: Physics 681 or equivalent. *Mr. Cooper.*

In the course rotational, vibrational and electronic spectra of diatomic molecules will be studied. The results of quantization of the rotator and oscillator will be used in the determination of the energy levels of diatomic molecules. Selection rules for infrared, Raman and electronic spectra will be considered along with a study of the symmetry properties of certain molecules. The origin of band spectra in both infrared and electronic spectra will be shown to be due to a superposition of rotational energy levels on vibrational levels. In addition a brief study of molecular electronic configuration will be made.

801. Microwave Theory and Applications. Five recitations per week. Prerequisite: Physics 471 (671) and Mathematics 355. *Mr. Burkhalter.*

The basic principles of radar and other microwave systems are introduced. Among the topics considered are klystrons, magnetron oscillators, waveguides, transmission lines, and detectors. Various applications are studied.

802. Infrared Spectroscopy. Four hours of recitation and two hours of laboratory per week. Prerequisite: Physics 481. *Mr. Sears.*

Theoretical considerations of the origin of infrared spectra; optics and performance of an infrared spectrophotometer and infrared applications in determining molecular structure.

804. Methods of Theoretical Physics. Five recitations per week. Prerequisite: Physics 404. *Mr. Barr, Mr. Burkhalter,* and *Mr. Dixon.*

Emphasis is placed on matrix and tensor analyses, on solutions of certain forms of the hypergeometric differential equation, and on Fourier series and integral transformations. All functions and techniques are discussed in the light of their applications to physical problems.

805. Advanced Analytical Mechanics. Five recitations per week. Prerequisite: An introductory course in Theoretical Mechanics (such as Physics 404). Desirable parallel course: Differential Equations. *Mr. Dixon.*

A study of advanced mechanical principles, desirable as a background for Quantum Theory and Wave Mechanics. D'Alembert's Principle, LaGrange's Equations, Hamilton's Principle, Canonical Equations, and Generalized Coordinates.

806. Quantum Mechanics. Five recitations per week. Prerequisite: Physics 404. *Mr. Barr* and *Mr. Burkhalter.*

The basic principles of quantum theory and wave mechanics will be developed; the application of these principles to problems in modern physics will be made.

813. Experimental and Theoretical Physics. The equivalent of five double laboratory periods per week. Prerequisite: A physics course of number above 400. *Mr. Barr, Mr. Burkhalter, Mr. Cooper,* and *Mr. Dixon.*

This course is designed to acquaint a student with desirable theoretical techniques and the experimental method used in research problems. It should precede the work of the experimental thesis.

POLITICAL SCIENCE

(Academic Building, North Campus)

Head: Pound. Staff: *Allums, Askew, *Collins, Hughes, Parthemos, Range, Saye, Shadgett, Trimble.

AMERICAN GOVERNMENT AND AMERICAN CONSTITUTIONAL LAW

1. American Government. *Mr. Pound* and *the Staff.*
An introductory course covering the essential facts of federal, state, and local governments in the United States. Prerequisite for advanced courses in political science. A satisfactory grade will exempt a student from the requirement of passing an examination on the Constitution of the United States and the Constitution of Georgia before graduation.

202. American Government. Prerequisite: Political Science 1. All students who expect to major in political science are advised to take this course. *Mr. Pound* and *the Staff.*
A continuation of Political Science 1 with emphasis on the internal organization and actual workings of the various departments of our national government.

410. American Political Parties. *Mr. Pound.*
A study of the influence of political parties on the governmental organization and on the history and political thought of the United States.

483. American Constitutional Law. *Mr. Saye.*
A study of the fundamental principles of constitutional interpretation and practice in the United States through decisions and opinions of the Supreme Court.

484. American Constitutional Law. *Mr. Saye.*
A continuation of Political Science 483, with emphasis on recent Supreme Court decisions.

492. (Economics) American Administrative Law. *Mr. Saye.*
This course stresses the legal principles and practical doctrines involved in work of administrative tribunals (the Interstate Commerce Commission, Federal Trade Commission. Securities and Exchange Commission, etc.) vested with *quasi*-legislative or *quasi*-judical powers, or both.

883-884. Problems of Constitutional Government in the United States. 5 hours for each course. *Mr. Pound, Mr. Saye.*
Courses designed to provide individual or small group instruction for graduate students, majoring or minoring in political science, who are interested in an extensive study of special problems of American government.

STATE AND LOCAL GOVERNMENTS

405. The Constitution of Georgia. *Mr. Saye.*
An historical survey of the evolution of the Constitution of Georgia followed by a detailed study of the present Constitution through decisions and opinions of the Supreme Court of Georgia.

406. State Government. *Mr. Pound.*
A study of the forms of organization, the functions, and the operation of state government of the United States with particular emphasis on the government of the State of Georgia. Exempts the student from the requirement of passing an examination on the Constitution of the United States and the Constitution of Georgia before graduation.

468. City and County Government. *Mr. Hughes.*
Organization and operation of city and county governments in the United States. Political aspects of these governments and techniques of citizen participation. Students will become familiar with the actual workings of city and county governments in Georgia through field trips and field studies.

885-886. Readings and Research in Problems of Government in Georgia. 5 hours for each course. *Mr. Pound, Mr. Saye.*
Courses designed to provide individual instruction for graduate students majoring or minoring in political science in an intensive study of special problems of Georgia government.

*On leave.

POLITICAL THEORY

408. American Political Thought to 1800. *Mr. Pound.*
A study of the political theory of the colonial period, the American Revolution, and the theories of the Convention of 1787 and the early interpretation of the Constitution. Political Science 408 and 409 form a natural sequence, though either or both may be elected. Where the student takes the entire sequence, it is desirable to take Political Science 408 first.

409. American Political Thought since 1800. *Mr. Pound.*
A study of the theories as to the nature of the Union, slavery, Civil War, Reconstruction, and the contemporary United States.

485. Political Philosophies of Ancient, Medieval, and Early Modern Times. *Mr. Parthemos.*
An historical study of the development of ideas relative to the state and government in ancient, medieval, and early modern times. Attention is directed primarily to the political thought of a selected group of eminent philosophers including Plato, Aristotle, Cicero, St. Augustine, St. Thomas Aquinas, Machiavelli, Bodin, Hobbes, and Locke.

486. Political Philosophies of Recent Times. *Mr. Parthemos.*
This course forms a sequence to Political Science 485. Either of the courses may be taken separately, but since emphasis is given to the growth of political thought, it is preferable to take the early period first.

COMPARATIVE GOVERNMENTS AND INTERNATIONAL RELATIONS

307. European Governments. *Mr. Askew.*
A study of the principles and forms of organization of the governmental systems of Europe.

311. The Governments of Latin America. *Mr. Range.*
A study of the principles and forms of organization of the governments of Latin America.

412. The Government of the Soviet Union. *Mr. Range.*
A study of the government of the Soviet Union. Emphasis will be placed on the fundamental principles upon which this government is founded and the machinery by which these principles are effected.

415. The Governments of the Far East. *Mr. Range.*
The structure, principles, and practices of political parties and governments of the Far East with particular emphasis on China and Japan.

420. International Relations. *Mr. Range.*
An introductory study of the forces and practices dominating contemporary international political relations.

421. International Organization. *Mr. Range.*
A study of the principles, organizations, and functions of international governmental organizations such as the United Nations, Organization of American States, Council of Europe, the Specialized Agencies, the international judiciary, etc.

424. (Law) International Law. 4 hours. *Mr. Cohn.*
Selected topics on international law; its nature, development and relation to municipal law; sovereignty, birth, recognition and death of nations; continuity of state personality; succession, domain, nationality; international cooperation and adjustment of differences under special consideration of the Charter of the United Nations.

481. Political Institutions. *Mr. Askew.*
A study of the nature and functioning of political institutions such as constitutions, legislative bodies, executive offices, and their strength and weaknesses in the maintenance of constitutional government.

PUBLIC ADMINISTRATION

441. (Economics) Principles of Public Administration. *Mr. Hughes.*
General principles and problems of administrative organization, relationships, and controls in the United States. Problems of personnel, finance, administrative law, and the growth and significance of administrative legislation and adjudication. The administrative process is considered in its democratic setting as it is influenced by political and social beliefs, legislatures, and pressure groups.

442. (Economics) Public Personnel Administration. *Mr. Parthemos.*
Procedures, policies, and problems of governmental personnel administration. Human relations aspects. Field trips and field studies of governmental agencies are employed to give the students first hand knowledge of governmental personnel administration.

443. (Economics). Public Finance Administration. *Mr. Hughes.*
Activities involved in the collection, custody and expenditure of public revenue, namely: the assessment and collection of taxes, public borrowing and debt administration, the preparation and enactment of the budget, financial accountability and the audit.

444. (Economics). Government and Business. *Mr. Smith.*
A general survey of the economic aspects of business regulations by the government, with special reference to regulatory developments and methods in the United States; other activities affecting business in general, such as extension of loans and subsidies, maintenance of fact-finding agencies and government-owned corporations.

PSYCHOLOGY

(Meigs Hall, North Campus, unless othewise specified)

Head: Jost. Staff: Gilbert, Gray, James, Osborne, Swain, Young.

All courses in the Psychology Department are in the Biological Science Division except Psychology 1, 371, 414, 473, 574, 582, 583, and 584, which are in the Social Science Division. Psychology 1 is a prerequisite to all other courses in Psychology except Psychology 358. It is recommended that no freshman be registered for psychology during his first quarter.

1. Elementary Psychology. *Mr. Gilbert, Mr. Gray, Mr. James, Mr. Jost, Mr. Osborne, Miss Swain,* and *Miss Young.*
A beginning course in psychology, given without laboratory experiments. It includes the fundamental facts and laws of psychology and indicates something of the various problems and fields of psychology, its relation to other fields, and some of the more important applications of psychology.

99. Reading and Study Skills. Three class meetings and two hours individual practice weekly. *Miss Swain.*
A non-credit course designed for improving reading skills to a level adequate for college study. Includes study and practice of: comprehension of varied materials; adapting speed of reading to purpose and materials; vocabulary skills; and efficient use of study time.

322. Experimental Psychology. Three periods for discussion, demonstration, and lecture and two double laboratory periods. *Mr. Gilbert.*
Psychology experiments will be performed to give the student an opportunity to discover and evaluate his abilities. These experiments will be utilized to give the student first hand experience with the facts and laws of psychology and to offer training in scientific thinking.

358. The Psychology of Adjustment. *Miss Young.*
A course in mental hygiene; application to personal adjustments, solutions of conflicts, fears, personality difficulties; development of character and personality. The psychology of morale in peace and war; psychotherapy.

370. Differential Psychology. *Mr. Jost.*
Scope of differential psychology, heredity and environment; training and growth; the distribution of individual differences; the relationship between behavioral and structural characteristics; theories of constitutional types; the nature and interrelationships of psychological traits.

371. Applied Psychology. Prerequisite: Psychology 1. *Mr. Gray.*
The applications of the principles of psychology to social, professional, industrial, and educational fields.

372. Psychological Problems. Prerequisite: Psychology 1. *Mr. Jost.*
This course provides for a systematic treatment, largely from a theoretical point of view, of some problem or problems of psychology, such as types of psychology, character and personality habit, and human variability.

374. Genetic Psychology. Prerequisite: Psychology 1. *Mr. Jost* or *Miss Young.*
The evolution of structure and behavior. The problems of childhood, maturity, and senescence as integral parts of the life cycle are given careful study.

400. Systematic Psychology. Prerequisites: for minor, one course in psychology and evidence of ability to do the work of the course; for part of major, four courses in psychology. *Mr. James* or *Mr. Jost.*
An advanced study in systematic and experimental psychology intended as a detailed study in theoretical discussions and investigations of special topics. Critical study of one systematic treatise and experimental work on special topics.

401. Systematic Psychology. Continuation of Psychology 400. May be taken by permission only. *Mr. Jost.*

412. Clinical Problems. Three hours discussion, four hours laboratory and clinical work. Prerequisites: for minor, one course in psychology and evidence of ability to do the work of the course; for part of major, four courses in psychology. *Miss Young.*

Clinical studies of cases, including the use of experimental methods, clinical diagnosis and special tests with critical study of a problem or problems specially selected for each student.

413. Clinical Problems. Continuation of Psychology 412. May be taken by permission only. *Mr. Jost.*

414. Psychology of Personnel. Prerequisite: Psychology 1 or permission of instructor. *Mr. Gray.*

This course attemps to present an organized account of the more important contributions that psychology has made to the problems of personnel counseling. It describes the methods that have brought satisfactory results in selection and direction of personnel. Representative procedures for evaluating the abilities and aptitudes of employees are studied. Interviewing as a special technique is emphasized.

415. Psychometrics. *Mr. Osborne.*

A course designed to give the student an introduction to the essentials of psychological testing with experience in administering, scoring, and interpreting tests including those of scholastic achievement, mental ability, scholastic aptitude, interest and personality.

416. Individual Psychological Testing. Prerequisites: Three courses in psychology, preferably including Psychology 415. *Mr. Osborne.*

A course designed to give the student training in the administration, scoring, and interpretation of individual psychological tests including the Wechsler-Bellevue, Terman-Merrill, Wechsler Intelligence Scale for Children, performance scales, and other individual tests for adults. All students are required to achieve a minimum competence in the use of tests for both children and adults but the major part of the practical work may be in the age range selected by the student.

417. Advanced Testing. Prerequisites: Three courses in psychology including preferably Psychology 415 and 416. *Mr. Osborne.*

An introduction to the theory, administration, scoring, and application of the Rorschach Method and the Thematic Apperception Test. The class is limited and is open only to advanced students with adequate background in psychological measurement and theory of personality. Registration only by permission of the department head or the instructor.

423. Abnormal Psychology. Lecture, laboratory, and clinical work. Prerequisites: for minor, one course in psychology and evidence of ability to do the work of the course; for major, four courses in psychology. *Mr. Jost* or *Miss Young.*

The study of abnormal manifestations and problems of mental disease, together with some of the methods of psychology and psychiatric examinations. The course deals with problems of normality, variability, individual differences, and human adjustments. It is planned especially for students who are going into social, educational, clinical, and remedial work, emphasis being placed upon mental hygience in all phases of the course.

459. Mental Hygiene. Prerequisites: Psychology 1 and Education 304, when taken as part of graduate minor by students majoring in Education; 4 courses in psychology, as approved by instructor, if taken as part of graduate major by students majoring in psychology. *Mr. Jost* or *Miss Young.*

An advanced course dealing with mental hygiene problems, especially of children and adolescents; problems of growth and adjustment; adjustments in the home and the school; recreational problems; retardation and delinquency; special childhood problems as brought in by students; diagnostic and therapeutic procedures.

461. Advanced Experimental Psychology. One hour discussion and eight hours laboratory and clinical work. Prerequisites: Psychology 1 and 322. *Mr. James, Mr. Jost* or *Mr. Gilbert.*

Emphasis is placed upon experimental techniques and methods of experimental work. Specially adapted for the student who desires to learn scientific method and for the student who is going on in psychology.

462. Clinical Psychology. Prerequisites: Psychology 1 and 423. May be taken by permission only. *Miss Young.*

Deals with problems of the normal, abnormal, maladjustments, delinquency, mental disease, methods of clinical examination, diagnosis, prognosis, and treatment. The course will be related especially to the work of the University of Georgia Clinic.

463. Clinical Psychology. Two or three hours advanced discussions and four or five hours of clinical examining and case work. Prerequisites: Psychology 1, 423, and preferably 462. May be taken by permission only. *Mr. Jost.*

A continuation of Psychology 462.

473. Social Psychology. Prerequisites: Psychology 1 and two senior division courses in psychology. *Mr. Gilbert.*

The social aspects of psychology: social stimulation, group response, tradition, custom, motive, suggestion and attitude as they relate to group action and social improvement. Methods of research in social psychology with special attention to the application of experimental methods to social phenomena.

480. Physiological Psychology. Prerequisites: Psychology 1 and two courses in biology. *Mr. James.*

In this course the personality is viewed as an integration of three factors; the morphological, the physiological, and the psychological aspects of the organisms, with attention mainly on the integration between the psysiological and psychological aspect. The significance of the internal environment of the organisms for behavior is emphasized by analysis of experiments in which the internal environment is modified by such factors as glandular deficiency, food changes and use of drugs, and then observing changes in behavior. Attention is also given to the structure and function of the receptors and action systems of the organism and the significance of these in adjustment.

481. Comparative Psychology. Prerequisites: Psychology 1 and two courses in biology. *Mr. James.*

The central aim of comparative psychology is to study the increase in adjustment ability which has resulted from the increase in complexity of structure of animal types from age to age. The course begins with an analysis of the structure and behavior of the amoeba and continues on through the animal series to man. The Integration of structure, physiological processes and behavior are emphasized throughout the course, resulting in a more thorough understanding of the adjustment processes.

490. Development of the Young Child. Three lectures and four laboratory periods in the Nursery School. Dawson Hall, South Campus. Prerequisites: Psychology 1 and two senior division courses in psychology. *Miss Young.*

A study of the physical, mental, emotional, and social development of the pre-school child, the environmental factors influencing the development of the young child, with emphasis upon techniques of guidance. Planned to meet requirements for teachers of home economics in high schools; desirable also for teachers of elementary grades.

574. Occupational Information. Prerequisite: Psychology 1. *Mr. Gray.*

A wide variety of occupations will be overviewed and certain others will be studied in detail. Tools of the occupational consultant—Dictionary of Occupational Titles, occupational families, job descriptions, will be studied. Field trips to observe jobs will be part of the course.

582. Employment Methods. Three hours discussion and four hours laboratory. Prerequisites: Psychology 1 and elementary statistics. *Mr. Gray.*

A survey of scientific methods of selecting men for industrial and business employment. Interviewing, testing, and appraising human aptitudes are studied and practiced in laboratory situations.

583. Work and Efficiency. Three hours discussion and four hours laboratory. Prerequisites: Psychology 1 and elementary statistics. *Mr. Gray.*

Various factors which affect work and efficiency—such as lighting, ventilation, methods, rest, age, motivation—are studied. Experiments are performed to demonstrate and evaluate these factors.

584. Psychological Aspects of Wage Determination. Three hours discussion and four hours laboratory. Prerequisites: Psychology 1 and elementary statistics. *Mr. Gray.*

Methods of job analysis, job evaluation, and merit ratings are studied and demonstrated. Actual practice in using these procedures is a part of the course.

805. Theories of Learning. Prerequisites: Psychology 1 and two senior division courses in psychology. *Mr. James* or *Mr. Gilbert.*

An analysis of the major theories of learning current among psychologists doing research in the field. Course begins with a study of the connectionism of Thorndike, and follows with the theories of Guthrie, Hull, Skinner, Kohler, Lewin, Wheeler, and Tolman. An attempt is made to determine the aspects common to all theories and to understand their differences. Emphasis is placed on experimental procedures used by each psychologist.

810. Special Problems. One hour discussion and eight hours laboratory. Prerequisites: for minor, one course in psychology, and evidence of ability

to do the work of the course; for part of major, four courses in psychology. *Mr. Gilbert, Mr. James,* or *Mr. Jost.*

Critical study of special problems in psychology, both experimental and theoretical, such as types of psychology, association and memory attention and feeling, behavior, and psychological examining and diagnosis. A special topic or experiment will be assigned each student for careful investigation.

811. Special Problems. Continuation of Psychology 810. May be taken by permission only. *Mr. Gilbert, Mr. James,* or *Mr. Jost.*

THE UNIVERSITY OF GEORGIA CLINIC

Florene M. Young, Director

The clinical work carried on by the Department of Psychology for many years was expanded in 1930 and includes psychological, physical, psychiatric, and neurological examinations and a limited amount of therapeutic service. Cooperative arrangements have been made with the schools, the personnel office, the college physician, the deans of the University, and with visiting psychiatrists and neurologists.

The Clinic is interested in the examination of both normal and abnormal individuals and in special problem cases. Those desiring services may apply to the Director.

Advanced students may be admitted to work in the Clinic.

The Clinic provides about once a month a speaker who can give accurate and scientific information about mental disorders and disease, and about what is generally known as mental hygiene.

RELIGION

(Candler Hall, North Campus)

Acting Head: Ayers.*

100. Introduction to the Study of the Bible. *Mr. Ayers.*

A study of the social, economic, political, and religious situations which called forth the several books of the Bible, and the way in which each book or letter sought to meet the special situation to which it was addressed. Attention will be given to the growth of various religious concepts during the course of Biblical history.

400. History of Religion. *Mr. Ayers.*

It is the aim of this course to survey the nature of early and primitive religions and to cover the main outlines of the chief living religions of the world. The method will be both historical and analytical.

406. (Philosophy) Hebrew-Christian Ethics. *Mr. Ayers* and *Mr. Pfuetze.*

An historical and interpretative survey of the social and ethical teachings of the Hebrew prophets, Jesus, and the Christian church; the relevance of this ethical pattern for the social problems, conflicts, and institutions of contemporary life. (Given in cooperation with the Department of Philosophy.)

408. (Philosophy) Philosophy of Religion. *Mr. Pfuetze.*

The branch of philosophy that inquires into the origin, nature, function, and value of religion; examines the source and validity of the claims which religion makes; studies the fundamental religious problems and the concepts as they find expression in Western religious philosophies, such as Judaism, Christianity, Modernism, Agnosticism, and Humanism.

410. Old Testament Literature. *Mr. Ayers.*

A study of the nature, content, and problems of Old Testament literature, with attention given to historical data, literary forms, and outstanding personalities.

411. New Testament Literature. *Mr. Ayers.*

A study of the nature, content, and problems of New Testament literature, with particular attention given to (1) the political, social, and religious background of Judaism, out of which Christianity sprang; (2) the life of Jesus; (3) the immediate foreground of an expanding church.

430. The Prophetic Movement. *Mr. Ayers.*

A study of the development of Hebrew religion from its early, more primitive

*On leave.

stages to the high point attained in the social, ethical, and spiritual teachings of the great writing prophets of Israel.

440. The Teachings of Jesus. *Mr. Ayers.*
Although primarily a study of what Jesus taught, attention is given to the literary and environmental background of his teaching, the historical life of the teacher, and the contemporary validity of what he taught.

For the convenience of the students, courses approved for transfer credit when taken at the Christian College of Georiga are listed below. A maximum of 15 hours may be transferred. Each course carries 5 hours of credit. Classes are held at the Christian College, 220 South Hull Street.

320. Religion in America. *The Staff.*
The rise and development of organized religion in the United States from the Colonial period to the present; principally a study of American Catholicism, Judaism and Protestantism and their significance as a major factor in the development of American life.

341. The Origin and Development of Christianity to 1500 A.D. *The Staff.*
Historical and social background of the rise of Christianity; and a study of the interrelation between Christianity and Western Civilization during the periods of early and medieval Christianity.

350. Religion During the Reformation and Modern Periods. *The Staff.*
A socio-historical presentation of the development of Christianity in the reformation and modern periods in Europe; Christianity's relation to the growth of Western Civilization.

RUSSIAN

(See Modern Foreign Languages)

SOCIAL SCIENCE

(Academic Building, North Campus)

Given under the general direction of the Chairman of the Social Science Division.

4. Contemporary Georgia. *The Staff.*
A discussion and analysis of certain aspects of Georgia's population, its characteristics and trends; its relative standing in various statistical measures of economic and social wellbeing; its natural resources and economic accomplishments from the standpoint of agriculture, industry, and commerce; and its governmental organization and problems.

SOCIOLOGY AND ANTHROPOLOGY

(Academic Building, North Campus)

Head: Williams. Staff: Chambliss, Dean, Kelly, Meadows, Payne.

SOCIOLOGY

5. Introductory Sociology. *The Staff.*
The study of organized social life in terms of interaction of heredity, physical environment, the group and culture. Emphasis on fundamental sociological concepts, methods, and data.

293. Family Relations. (See Home Economics).

315. The Field of Social Work. *Miss Dean.*
An introductory course to the various aspects of present-day social work. Considers family and children's services, behavior clinics and case work approach to social problems, the courts, probation and parole, medical social services, group work, community organization, public assistance, and social security. Class discussion and collateral reading.

356. Quantitative Methods in Sociology. *Mr. Payne.*
An introduction to quantitative methods in their application to sociological data.

360. Contemporary Social Problems. *The Staff.*
A study of both general and special problems of our times. The problems are considered in the social and cultural setting in which they occur. The emphasis is upon people and their behavior.

Note: All 400 and 500 courses have as prerequisites Sociology 5 or the consent of the instructor.

409. Social Change. *Mr. Chambliss.*
The nature and theories of social change; causes and types of social change; the cultural lag theory; the adjustments of society to inventions; methods of studying the social effects of invention.

420. Methods of Sociological Research. *Mr. Payne.*
A critical analysis of historical research, field observation, mapping, interviewing, evaluation of human documents and case studies as used in sociology; the relation of these methods of statistical procedure.

421. Early Social Thought. *Mr. Chambliss.*
A survey of social thought from Hammurabi to Comte. This course affords an introduction to social thought prior to the emergence of the modern social sciences.

422. Development of Sociological Theory. *Mr. Chambliss.*
A survey of some of the most important systems in the development of sociological theory.

426. American Sociology. *Mr. Williams.*
A complete coverage of the origin and development of sociology in the United States, from Ward to the present. Special emphasis is placed on the approaches to the subject and recent trends in the field will be studied and analyzed.

427. Personality and Social Adjustment. *Mr. Payne* or *Mr. Williams.*
Foundation and development of personality; mechanisms of integration and adjustment; roles of culture, groups and language; concepts of self; types and theories of personality; divergent personalities.

431. Principles of Rural-Urban Sociology. *Mr. Payne* or *Mr. Williams.*
The fundamental differences between rural and urban societies and the interrelationship between these two large groups of people. How personalities growing up in the different environments are affected, and some of the problems that arise because of the differences and conflicts between rural and urban interests.

433. Population Analysis. *Mr. Payne.*
Theory and dynamics of population growth; population pressure; migration; composition; differential fertility; theories of the quality and optimum population; economic and social aspects of our population.

435. Community Organization. *The Staff.*
A study of the community as a unit of social organization; contemporary trends in community organization and planning.

443. Social Mobility. *Mr. Williams.*
A study of the vertical and horizontal movements of people. Includes treatment of occupational, inter-generational, and social group mobility; as well as migration, both from the standpoint of the individual and of groups of people.

461. (Home Economics) The Family. *Mr. Chambliss.*
Family study from many different angles, utilizing data from the fields of anthropology, individual and social psychology, history, sociology, economics and psychiatry.

470. Introduction to Public Welfare Administration. *Miss Dean.*
Historical development of public welfare services and their administration. Reference is made to the underlying problems with which present day public welfare departments deal; specific attention is paid to administration at local, state, and federal levels.

481. Criminology. *Mr. Payne.*
The study of criminal behavior and its treatment. The development of criminal behavior in contemporary society and the efforts of the individual to adjust to the demands made upon him. The treatment of the offender by means of probation, imprisonment, and parole.

551. Social Work Organization. *Miss Dean.*
Analysis of social needs and social services. The background, growth, organization and function of private and social agencies doing social work and public welfare.

552. Principles and Methods of Social Case Work. *Miss Dean.*
Designed to deepen and extend the student's skill and knowledge in the field of social case work. Includes the fields of psychiatric, school and correctional case work.

800. Sociology Research Seminar. *The Staff.*
Opportunity for students taking graduate work as majors in sociology to do special research and study in the field under direction of staff members in the department. In no case may a student receive credit for more than one quarter of work, although the problems may cover a longer period.

808. Advanced Principles of Sociology. *Mr. Chambliss* or *Mr. Payne.*
A critical examination of the conceptual framework of the science of sociology is made.

ANTHROPOLOGY

102. Man and His Culture. *Mr. Kelly.*
An introduction to the study of man as a cultural animal, the development of human societies from preliterate beginnings, the rise of complex social organizations with an outline study of the major cultures developed by man.

203. Human Origins. *Mr. Kelly.*
A study of the fossil history of mankind—Pleistocene to recent geological periods. The student will gain some familiarity with the main craniometric and anthropometric techniques used in racial studies.

204. The Races of Man. Prerequisite: Anthropology 203. *Mr. Kelly.*
A study of the development of modern man into races through the sub-species specialization of Homo Sapiens in late Pleistocene and Holocene geological times. Human racial hybridism will receive considerable attention in critical world areas where new blended types of man have developed.

210. Introductory Ethnology. Prerequisite: Anthropology 102 or introductory course in another social science. *The Staff.*
An introduction to the basic principles of ethnology, the historical and analytical study of primitive cultures. A number of primitive cultures will be surveyed. These will be selected to give the fullest possible coverage in terms of area, race, and culture type.

211. North American Archaeology. Prerequisite: Anthropology 102. *The Staff.*
An introductory course in the archaeology of North America. Will survey the total range of North American prehistory from 10,000 B. C. to the 17th century A. D., tracing development in each of the major culture areas from the early hunting gathering stage to the cultural peaks just before intensive white contact. Special emphasis will be placed on the mechanics of cultural change as discernible by the methods of prehistory.

301. Old World Archaeology. Prerequisite: Anthropology 203 or 102. *Mr. Kelly.*
The development of culture, beginning with the oldest remains of the Stone Age, extending through the Stone, Bronze, and Iron Ages.

400. (Economics) Early Economic Systems. Prerequisites: Anthropology 102 and Economics 5x. *Mr. Kelly.*
The economic life of primitive peoples. Concepts and principles of classical economics, developed in Western civilization, are studied in the light of practices and thought among primitive groups in Asia, Africa, and the South Pacific.

401. Archaeology of the Southeastern United States. Prerequisite: Anthropology 301. *Mr. Kelly.*
A detailed study of the literature dealing with the archaeology of the Mississippi River basin and contiguous areas in the central United States, the Northeastern and Southeastern woodlands, with particular reference to the description of archaeological remains in the American Southeast and the Caribbean region.

420. Field and Laboratory Methods in Archaeology. Prerequisite: Anthropology 401. *Mr. Kelly.*
Methods of archaeological reconnaisance, survey excavation, laboratory preparation and analysis of collected materials, study to be pursued in scheduled field expeditions to ssigned archaeological sites in Georgia.

801, 802. Research in Southeastern Archaeology. 5 hours each. Prerequisites: 20 hours of anthropology with a 400-course in American ethnology or archaeology. *Mr. Kelly.*
The student will pursue graduate research on assigned materials of original archaeological context in the existing collections of the University, or will carry out field excavations on an archaeological site, or unit of exploration or survey, preparing all field recordation and a completed report on the work.

SPANISH

(See Modern Foreign Languages)

SPEECH AND DRAMA

(LeConte Hall, North Campus; Fine Arts Building, North Campus)

Head: Ballew. Staff: Ainsworth, Camp, Luper, Popovich, Strother.

GENERAL SPEECH

3. Oral Communication. 3 hours. *Mr. Strother.*
Objective analysis of individual speech habits and an individually planned study of appropriate drills and activities for improving the skills of everyday speech.

8. Fundamentals of Speech. *The Staff.*
Study of the fundamental principles necessary to the development of an acceptable speaking voice and an effective informal conversational style.

50. Public Speaking. *Mr. Strother.*
Construction and delivery of various types of extemporaneous speeches with emphasis on the organization of speeches, the principles of attention, the logical and psychological principles of speaking and thinking, and practices in delivery.

209. Phonetics. Prerequisite: Speech 8. *Mr. Strother.*
Analysis of movements involved in production of the sounds of English both in isolation and in connected speech, including significant regional and foreign dialect variants.

350. Argumentation and Debate. Prerequisite: Speech 50. *Mr. Strother.*
Principles of logical proof as applied in argumentation and debate. Theory and practice in analysis, investigation, brief-making, refutation, evidence, forms of argument, fallacies, and debate procedures.

351. Advanced Public Speaking. Prerequisite: Speech 50. *Mr. Strother.*
Thorough study of psychological and rhetorical elements of persuasion and speech construction. Practice in the delivery of various types of speeches, such as judicial, occasional, and forensic, with emphasis on methods of securing interest and audience response. Critical analysis of contemporary speeches and speakers.

352. Principles and Methods of Group Discussion. Prerequisite: Speech 8. *Mr. Strother.*
Study of methods, techniques and aims of the discussion group and the conference; gathering and organizing materials on current problems, with practice in discussion as participant and leader. Practice in discussion of current controversial problems as a member of various kinds of groups: committee, symposium, forum, panel, etc.

386. Oral Interpretation of Literature. Prerequisite: Speech 8 or consent of the instructor. *Mr. Popovich.*
A study of the techniques of literary analysis for effective oral reading of lyric and narrative literature and the development of vocal flexibility through a variety of problems in phrasing and emphasis.

387. Dramatic Interpretation. Prerequisite: Speech 8. *Mr. Popovich.*
A study of the theory, techniques, and principles of interpretation of drama from the points of view of the oral interpreter and actor. Development of oral skills through the study of selected plays and monologues.

412. Advanced Phonetics. Prerequisite: Speech 209. *Mr. Strother.*
A study of the anatomy and physiology of breathing, phonation, resonance, and articulation for speech; a study of the physical phenomena in voice and speech. Advanced practice in transcribing variations of speech into phonetic symbols.

DRAMA

1. Introduction to Drama and Theatre. Lecture-laboratory course. *Mr. Camp.*
A general introductory course in the arts of the theatre: designed for freshmen and transfer students. Each student will be expected to work as assigned on various productions of the University and Laboratory Theatres.

2. Acting. Lecture-laboratory course. *Mr. Popovich.*
The fundamentals of acting techniques, including pantomine and improvisations. Class lectures, exercises, and reports. Individual and group assignments of various acting techniques and procedures. Each student is required to participate in the productions of the Laboratory Theatre.

3. Acting. Lecture-laboratory course. Prerequisite: Drama 2 or consent of the instructor. *Mr. Popovich.*
Continuation of exercises in acting techniques and procedures. Particular emphasis

on characterization, line interpretation, and tempo. Each student is required to participate in the productions of the Laboratory Theatre.

222. Survey of Theatre History. *Mr. Ballew.*
Comprehensive survey and general approach to the history of drama and theatre, providing the basis for the appreciation of drama as a fine art. Lectures, reading of plays, and student reports. Particular emphasis on trends in contemporary American and European theatre.

329. Play Analysis. *Mr. Popovich.*
An intensive examination of selected plays and a study of the problems of plot, characterization, and dialogue as they relate to theatre production.

334. Scene Building and Painting. Lecture-laboratory course. *Mr. Camp.*
Planning the construction of stage settings; scene building, painting, rigging, and handling; drafting laboratory, use of scale rule and reading floorplans and construction drawings. Practical laboratory assignments as members of University Theatre and Laboratory Theatre crews.

335. Scene Design. Lecture-laboratory course. *Mr. Camp.*
Survey of history and principles of scene design. Laboratory includes development of designs for a play through sketches, floor plans, colored elevations, and scale models. Practical assignments as members of University Theatre and Laboratory Theatre crews.

336. Stage Lighting. Lecture-laboratory course. *Mr. Camp.*
Study of problems of lighting in the theatre; lighting instruments, lighting control; operation of lighting equipment. Practical assignments in the University Theatre and Laboratory Theatre.

360. Play Direction. *Mr. Ballew.*
A survey of the theory and practice of play directing in the modern theatre. It deals with the general philosophy of theatre practice, analysis of plays for production, play selection, and play casting. Each student makes a director's study of a specific play.

361. Play Direction. Laboratory. *Mr. Ballew.*
The production of plays in the Laboratory Theatre with students in the course serving as directors for the productions. Each student will direct a one-act play during the quarter and submit a detailed director's prompt script of the production.

400. Playwriting. Prerequisites: Two senior division courses in English or classics, or journalism or drama. *Mr. Popovich.*
Elementary laboratory course in playwriting, including study and practice in writing for stage, radio and television. Plays that merit production are presented in the Laboratory Theatre.
Open to all juniors and seniors who submit an original play or short story that is approved by the instructor.

420. History of the Theatre. Prerequisites: Two senior division courses in English or classics or drama. *Mr. Popovich.*
The development of the physical theatre and the growth and drama studies from the beginning of dramatic literature in Greece through commedia dell' arte. Representative dramatists of each period and their important contributions to dramatic literature are included from Aeschylus to Shakespeare.

421. History of the Theatre. Prerequisites: Two senior division courses in English or classics or drama. *Mr. Popovich.*
The development of the physical theatre and the growth of drama studied from the Elizabethan period to the present. Representative dramatists of each period and their important contributions to dramatic literature are included from Shakespeare to Giraudoux.

511. Theatre Management. Prerequisite: Three senior division courses in drama. *Mr. Camp.*
A critical examination of theatre management. A survey of the organization of various non-professional theatres and promotional and managerial procedures.

530. Play Production. Prerequisites: Three senior division courses in drama. *Mr. Camp.*
Course coordinates all processes and phases of play production. The functions of the director, actor, designer, technician, and business staff are treated as integrated parts of the whole design. Practical laboratory assignments in the field of technical production and stage management in University Theatre and Laboratory Theatre.

531. Technical Problems. Prerequisites: Three senior division courses in drama. *Mr. Camp.*
Advanced study of the theory and styles of design (lighting, setting, costuming) in the theatre with special emphasis on the techniques of collaboration between director and technical director.

562. Advanced Play Direction. Prerequisites: Three senior division courses in drama. *Mr. Ballew.*

Lectures, reports, and reading in contemporary drama and theatre, with particular emphasis on contemporary techniques of staging and direction.

800. Seminar in Drama. Prerequisites: Three 5-hour courses in speech, drama, or dramatic literature. *Mr. Ballew.*

Reading, reports, discussions of problems relating to theatre history and theatre aesthetics and the techniques of research in drama and speech. Required of all graduate majors in the field.

RADIO AND TELEVISION

(Listed jointly with the School of Journalism)

344. Radio Acting and Production. 3 hours. Prerequisite: Speech-Drama 2 or 3 and/or consent of instructor. *Mr. Ballew.*

An advanced course in acting, including radio acting and script analysis. Plays will be broadcast regularly from the campus studios.

345. Radio Acting and Production. 3 hours. Prerequisite: Speech-Drama 2 or 3 and/or consent of the instructor. *Mr. Ballew.*

An advanced course offered in sequence to Drama 344. Plays will be broadcast regularly from the campus studios.

346. Radio Acting and Production. 3 hours. Prerequisite: Speech-Drama 2 or 3 and/or consent of instructor. *Mr. Ballew.*

A continuation of the advanced acting sequence with plays being broadcast regularly from the campus studios.

347. Radio Speech. Prerequisite: Speech 8 or 50. *Mr. Strother.*

A thorough analysis and study of diction, pronunciation, and script interpretation for the radio announcer.

SPEECH-DRAMA EDUCATION

391. Teaching of Speech and Drama. Prerequisites: Two senior division courses in speech or drama or secondary education. *Mr. Popovich.*

Philosophy, methods, and problems of teaching speech and drama in elementary and secondary schools. Emphasizes the analysis of speech needs of children and techniques in implementing speech and drama activities for general speech improvement.

392. Creative Dramatics for Children. Prerequisites: Two senior division courses in speech or drama or elementary education. *Mr. Popovich.*

A thorough study of the theories, principles, and techniques in original dramatizations for children. Preparation for students who wish to do creative work in drama with children.

SPEECH CORRECTION

310. Survey of Speech Problems. *Mr. Ainsworth.*

The introductory course for those majoring in speech correction. Acts as a course for the classroom teacher who wishes to become informed about speech problems and as a course for students majoring in Speech-Drama. A study of the major etiology, and basic therapy for all types of speech defects, with a concentration on those most commonly found in the classroom.

470. Diagnosis in Speech Correction. Prerequisites: Speech-Drama 310 and Speech 412. *Mr. Ainsworth.*

The theory, administration, and interpretation of tests and diagnostic procedures used in determining the nature, etiology of and therapy for speech defects. In addition to various methods for analyzing speech, attention is given to non-audiometric evaluation of hearing, examination of the speech mechanism, special abilities related to speech, and to an understanding of how results of psychological tests are related to speech problems.

471. Introduction to Evaluation of Hearing Loss. Prerequisite: Speech 412. *The Staff.*

The anatomy and basic psychophysics of hearing, the pathologies causing hearing loss, and basic theory of hearing evaluation. A survey of educational, psychological and medical rehabilitation for persons with a loss. Practice in pure tone audiometry.

474. (Education) Voice and Articulation Disorders of Speech. Prerequisite: Speech 470 or consent of instructor. *The Staff.*

A study of etiology and the rationale and methods of therapy for functional and

organic disorders of voice and articulation. The development of a therapeutic program and lesson plans. Supervised clinical practice in voice and articulation disorders with individuals and groups.

476. (Education) Stuttering: Etiology and Therapy. Prerequisite: Speech 470. *The Staff.*

A study of the major theories of causation of stuttering, whether based on neurophysiological, emotional, or learning factors. The development of an integrated therapy based on modern research in stuttering. Supervised clinical practice in individual and group theapy for stutterers.

535. (Education) Directed Individual Study in Speech Correction. Prerequisites: Four courses in correction or consent of instructor. *The Staff.*

This course is designed to permit adaptation of the Speech Correction curriculum to the individual needs of mature students. A detailed outline of requirements must be prepared in conference by the student, and instructor and approved by the Chairman of the Speech Correction Area, DEEC, and the Head of the Department of Speech and Drama.

536. (Education) Directed Individual Study in Speech Correction. Prerequisites: 4 courses in speech correction or consent of instructor. *The Staff.*

Outline of work must be approved in the same manner as for Speech (or Education) 535, but content must be different.

537. (Education) Seminar in Speech Pathology. Prerequisites: Six courses in speech correction or four courses and the consent of the instructor. *Mr. Ainsworth.*

Intensive and thorough exploration of the research and theory in one or more areas of speech pathology. Specific content in any one quarter will be adapted to the particular needs of the student. Group projects may be carried in addition to readings and lectures.

835. (Education) (Psychology) Organic Disorders of Speech. Prerequisites: Six courses in Speech Correction. *Mr. Ainsworth.*

A detailed study of pathologies affecting speech, the speech test and therapy for cases of cleft palate, cerebral palsy, aphasia, laryngectomy, and retarded speech. Develops an understanding of the role of the speech pathologist in the madical-psychological-Educational speech therapist team for the rehabilitation of physically and emotionally handicapped individuals.

836. Anatomy and Psychophysics for Speech Correction. Prerequisites: Six courses in speech correction or four graduate courses in psychology. *Mr. Ainsworth.*

An intensive study of the anatomy and physiology of speech and hearing and the psychophysics of hearing. Laboratory with models, charts, and specimens.

ZOOLOGY*

(Baldwin Hall, North Campus)

Head: Boyd. Staff: Byrd, Hamilton, Martof, McGee, Nuttycombe, Odum, Schoenborn, Scott.

No student will be allowed to take as an elective a course numbered 300-399 in zoology unless he has an average of C or above in all prerequisite courses.

1-2. Human Biology. 10 hours (5 hours a quarter). Four lectures and one demonstration period. *The Staff.*

The aim of this course is to give the student some acquaintance with vital phenomena in general and their application to the human organism.

10-11-12. Biology for Nurses. 9 hours. (3 hours a quarter). Two lectures or recitations and one three-hour laboratory period. *The Staff.*

An introductory study of human anatomy and physiology. Given for students in Nursing Education. (Offered in three quarters in the Atlanta Division.)

25(225). General Zoology. Two lectures and three double laboratory periods. Prerequisites: Human Biology 1-2 or Botany 21 or 22. Senior division students with 10 hours of previous work in a biological science may register for Zoology 225. *Mr. Nuttycombe.*

A survey of the invertebrate animals, their biology, structure, and relation to other animals.

*Students may be held responsible for breakage in laboratory courses.

26(226). General Zoology. Three lectures and two double laboratory periods. Prerequisites: Two courses in plant or animal biology. Senior division students with 10 hours of previous work in a biological science may register for Zoology 226. *Mr. Odum* and *Mr. Martof.*

A study of the structure, body functions, interrelations, and natural history of the vertebrate animals.

312 a-b. Human Anatomy and Physiology. 10 hours. Three lectures and two double laboratory periods. Prerequisites: Human Biology 1-2 and Chemistry 21-22. *Mr. Martof.*

Systematic study of the anatomy of the human body and the energy relationships of human physiology. For physical education majors only.

353. Animal Ecology. Two lectures and three double laboratory periods. Prerequisites: Zoology 25 and 26. *Mr. Odum.*

A survey of basic principles of ecology and their application to the welfare of man, coordinated with a study of animal populations and communities in the field.

355. Embryology. Two lectures and three double laboratory periods. Prerequisites: Zoology 25 and 26. *Mr. Nuttycombe.*

An elementary course in embryology in which the chick is used to illustrate the basic principles of developmental anatomy.

356. Comparative Anatomy of the Vertebrates. Two lectures and three double laboratory periods. Prerequisites: Zoology 25 and 26. *Mr. Scott.*

A comparison of the structure and evolution of organ systems in the different vertebrate groups.

357. Animal Histology. Two lectures and three double laboratory periods. Prerequisites: Zoology 25 and 26. *Miss Hamilton.*

A study of the tissues and their organization into organs and organ systems in animals.

361. Histological Technique. Five double laboratory periods. Open to majors in zoology only. *Miss Hamilton.*

A course offering training in the preparation of histological material, including practice in fixing, sectioning, staining, and mounting.

370. Genetics. Prerequisites: Botany 21-22 or Zoology 25-26. *Mr. Scott.*

The study of the laws of biological inheritance and the principles and theories associated with them.

372. Parasitology. Three lectures and two double laboratory periods. Prerequisites: Zoology 25 and 26. *Mr. Byrd.*

A general study of the protozoa and worms parasitic in man and the lower animals.

381. Ornithology. Two lectures and three double laboratory periods. Prerequisites: Zoology 25 and 26. *Mr. Odum.*

An introduction to the study of birds, emphasizing the identification, classification, life histories, and economic importance of Georgia species.

390. Animal Physiology. Three lectures and two double laboratory periods. Prerequisites: Zoology 26 and Chemistry 260 (or equivalent). *Miss Hamilton* and *Mr. Schoenborn.*

An introduction to general physiological processes with major emphasis on the physiology of vertebrates.

403. Mammalogy. Three lectures and two double laboratory periods. Prerequisites: Zoology 25 and 26, and two courses in zoology numbered above 300. *Mr. Odum.*

A study of the taxonomy, distribution, ecology, and evolution of mammals with special emphasis on land mammals of the Southeast.

404. Herpetology. Three lectures and two double laboratory periods. Prerequisites: Zoology 25 and 26, and any two courses in zoology numbered above 300. *Mr. Scott.* (Offered alternate years.)

An introduction to the taxonomy, distribution, ecology, behavior, and evolution of amphibians and reptiles, with special emphasis on those of the Southeast.

405. Ichthyology. Three lectures and two double laboratory periods. Prerequisites: Zoology 25, 26, 356 and one other course in zoology numbered above 300. *Mr. Scott.* (Offered alternate years.)

A study of the taxonomy, distribution, ecology, and evolution of fishes with special reference to the marine and freshwater fishes of eastern North America.

454. Aquatic Biology. Two lectures and three double laboratory periods. Prerequisites: Zoology 25, 26, and two zoology courses numbered above 300. *Mr. Scott.*

A study of fresh-water habitats, dealing primarily with the principles of limnology.

800. Zoology Seminar. 1 hour. Prerequisite: Undergraduate major in zoology. *The Staff.*

Weekly meetings for full year devoted to discussions of current literature dealing with research in zoology.

801. Parasitic Protozoa. Prerequisite: Undergraduate major in zoology. *Mr. Boyd* or *Mr. McGhee.*

A study of morphology, life histories, classification, and parasitic relationships of protozoan parasites of man and the lower animals.

803. Helminthology. Prerequisite: Undergraduate major in zoology. *Mr. Byrd.*

A study of the morphology, life histories, classification, and parasitic relationships of the flatworms and roundworms.

807. Advanced Invertebrate Zoology. Five double periods. Prerequisite: Undergraduate major in zoology. *Mr. Byrd, Mr. Nuttycombe, Mr. Odum, Mr. Schoenborn,* and *Mr. Scott.*

Deals with the morphology, taxonomy, phylogeny and general biology of the follow-following phyla: Protozoa, Porifera, Coelenterata, Ctenophora, Platyhelminthes, Nemathelminthes, Minor Acoelomate Phyla.

808. Advanced Invertebrate Zoology. Five double periods. Prerequisite: Zoology 807. *Mr. Byrd, Mr. Nuttycombe, Mr. Odum,* and *Mr. Scott.*

Deals with the morphology, taxonomy, phylogeny and general biology of the following phyla: Annelida, Mollusca, Echinodermata, Arthropoda, Minor Coelomate Phyla.

820. Cellular Physiology. Three lectures and two double laboratory periods. Prerequisites: Zoology 390 (or equivalent) and Chemistry 340b (or equivalent). *Mr. Shoenborn.* (Offered alternate years. Not offered 1955-56).

The cell will be used as a unit to study the nature and mechanism of physiological processes.

822. Invertebrate Physiology (Protozoa). Three lectures and two double laboratory periods. Prerequisites: Zoology 390 (or equivalent) and Chemistry 340b (or equivalent). *Mr. Schoenborn.* (Offered alternate years. Not offered in 1955-56).

A study of the physiological processes of the phylum Protozoa.

826. Vertebrate Physiology (Behavioral Systems). Three lectures and two double laboratory periods. Prerequisites: Zoology 390 (or equivalent) and Chemistry 340b (or equivalent). *Miss Hamilton.* (Offered alternate years.)

Physiology of the nervous system, receptors, and muscles of vertebrates.

827. Vertebrate Physiology (Metabolic Systems). Three lectures and two double laboratory periods. Prerequisites: Zoology 390 (or equivalent) and Chemistry 340b (or equivalent). *Miss Hamilton.* (Offered alternate years).

Physiology of respiration, circulation, digestion, nutrition, and excretion of vertebrates.

829. Endocrine Physiology. Three lectures and two double laboratory periods. (Prerequisites: Zoology 390 (or equivalent) and Chemistry 340b (or equivalent). *Miss Hamilton.* (Offered alternate years).

Physiology of the endocrine organs and of reproduction of vertebrates.

830. Seminar in Parasitology. Credit 1 hour per quarter. Maximum credit allowable, 6 hours. Prerequisite: Undergraduate major in zoology or consent of instructor. *Mr. Boyd.* (Offered when enrollment justifies).

Weekly meetings for full year devoted to discussions of parasitological subjects.

852. Fisheries Biology. Three lectures and two double laboratory periods. Prerequisites: Zoology 405 and 454. *Mr. Scott.* (Offered alternate years. Not offered 1955-56).

A study of the biology of fish populations.

854. Physiological Ecology. Prerequisite: Undergraduate major in biology. *Mr. Odum.* (Offered alternate years).
A study of the physiological basis for animal behavior, with emphasis on the major physical factors of the environment as they affect the organism as a whole.

855. Advanced Ecology. Prerequisites: Undergraduate major in biology. *Mr. Odum.* (Offered alternate years. Not offered 1955-56.)
An advanced course in ecological principles with emphasis on population ecology.

900. Problems in Zoology. *The Staff.*
This course allows students to work intensively on problems in an approved field of zoology.

THE SCHOOL OF LAW

JOHN ALTON HOSCH, B.S.C., M.A., LL.B., *Dean*

GENERAL INFORMATION

Courses in law were first offered at the University in 1843 and the School of Law of The University of Georgia was established in 1859. The Honorable Joseph Henry Lumpkin, a distinguished lawyer, who later became the first Chief Justice of the Supreme Court of Georgia, was elected the first professor of law.

The School of Law is a member of the Association of American Law Schools, an organization of the leading law schools of the country. The American Bar Association and the Georgia Bar Association have approved the quality of its work. The School has also been approved by the Board of Regents of the State of New York so that its graduates are eligible to take the bar examination in that state as in other states.

STANDARDS OF THE AMERICAN BAR ASSOCIATION

The Council on Legal Education and Admissions to the Bar of the American Bar Association requests that attention be called to the following standards adopted by the Association:

1. The American Bar Association is of the opinion that every candidate for admission to the bar should give evidence of graduation from a law school complying with the following standards:

a) It shall require as a condition to admission at least three years of study in a college, or its equivalent.

b) It shall require its students to pursue a course of three years' duration if they devote substantially all of their working time to their studies, and a longer course, equivalent in the number of working hours, if they devote only a part of their working time to their studies.

c) It shall provide an adequate library available for the use of the students.

d) It shall have among its teachers a sufficient number giving their entire time to the school to ensure actual personal acquaintance and influence with the whole student body.

e) It shall not be operated as a commercial enterprise and the compensation of any officer or member of its teaching staff shall not depend on the number of students or on the fees received.

2. The American Bar Association is of the opinion that graduation from a law school should not confer the right of admission to the bar, and that every candidate should be subject to an examination by public authority to determine his fitness.

3. The Council on Legal Education and Admissions to the Bar is directed to publish from time to time the names of those law schools which comply with the above standards and of those which do not, and to make such publications available so far as possible to intending law students.

The School of Law of The University of Georgia is approved by the Council on Legal Education of the American Bar Association as fully complying with these standards.

PURPOSES AND METHOD OF INSTRUCTION

The courses of study offered in the School of Law are designed to give a thorough knowledge of the Anglo-American system of common law and to familiarize the student with statutory laws with which he must deal. Em-

phasis is placed on teaching the student how to make a practical application of the legal principles he learns. The School also undertakes to shape the interests and aims of its students so as to make them respected and useful citizens and to instill in them that high sense of personal honor and regard for professional ethics that should characterize members of the legal profession.

In general, the School operates under the case method of instruction as best designed to enable students to master the common law and equity as working systems. The student studies actual cases, deducing from them the principles of law involved, and this approach tends to develop in the student the power of analysis of legal problems. In addition, however, the study of cases is supplemented by statutory and textual materials. This method of instruction accords with that followed by the leading law schools of the country.

Instruction is given in the drafting of legal instruments by requiring the student to prepare, under the supervision of an instructor, contracts, leases, deeds, wills, charters, and other legal documents.

Practical instruction in the preparation and trial of cases is given in a Practice Court under conditions made as nearly as possible like those prevailing in the courts of the State. The work of this court is carried on under the direction of a member of the faculty, judges, and practitioners. Here are taken up matters relating to the preparation of pleadings, examination and cross-examination of witnesses, writing of briefs, presentation of arguments to the court and jury, taking of cases from lower courts to appellate courts, and other related subjects of a practical nature. For the work of this court there is a large and handsomely furnished court room.

LAW CLUBS

The student body of the School of Law is organized into clubs. Each club is presided over by a chief justice who is a member of the senior class. Cases are assigned to members of the first and second year classes for argument. The arguments are conducted before some member of the senior class or before some professor or practicing attorney invited by the club to sit as judge. After the decision legal principles involved in the case are discussed. These discussions frequently give to a student insight into a legal problem which he could not get so readily in any other way. With a regular schedule of cases in which opposing attorneys are members of different clubs, a spirit of friendly and wholesome rivalry has been developed among the clubs.

LECTURES

In order that students may receive first-hand knowledge of what is actually taking place in the courts and of the development in the various fields of the law, a number of distinguished lawyers and judges deliver lectures on phases of the law in which they may be particularly interested. These men come to the School of Law because of interest in legal education and give their services without compensation.

STUDENT MEMBERSHIP IN GEORGIA BAR ASSOCIATION

Any member of the second year or third year class is eligible for junior membership in the Georgia Bar Association. Students eligible for membership are urged to avail themselves of this privilege and to attend the meeting of the Bar Association. Student members of the Association become acquainted with the leaders of the bench and bar and are introduced to problems considered by lawyers in their professional organizations. There is thus developed in the student a sense of professional consciousness.

BUILDINGS AND LIBRARY

The School of Law of the University is housed in three buildings. The Main Law Building is a handsome structure provided by alumni and friends of the University and completed in 1932. It was named in honor of Harold Hirsch, Class of 1901, a devoted alumnus. On the ground floor are the court room and smoking and lounging rooms. The main floor of the building contains three large lecture rooms, administrative offices, and private offices for professors. The Alexander Campbell King Library is located on the top floor of the building. It was named for the late Judge Alexander Campbell King, Solicitor-General of the United States under President Wilson, and later a Judge of the United States Circuit Court of Appeals for the Fifth Circuit. The School of Law is greatly indebted to the widow of Judge King, Mrs. Alice M. King, who contributed generously to the establishment of the library in memory of her husband. The Library has a commodious reading room and a stack room with a capacity of 75,000 volumes. There is also a private reading room for the students.

The Institute of Law and Government occupies the building on the North adjacent to the Main Law Building. It contains several offices, library, seminar and conference rooms, and other facilities.

In the small structure behind the Institute of Law and Government is the office of the Student Editorial Board of the Georgia Bar Journal. Here also is a memorial room resembling a Georgia law office of a century ago with interesting and valuable furniture and other objects belonging to distinguished jurists and alumni of the School.

The Library of the School of Law now contains more than 33,000 well selected volumes to which approximately 1500 volumes are added annually. The book collection includes the reports of all cases decided by the appellate courts of the United States as well as a large collection of reported cases from the leading common-law jurisdictions of the British Commonwealth. The collection of statutory law includes the official codes or the annotated codes of all the 48 states. Complete files of the leading law reviews in the English language and a comprehensive collection of up to date treatises on all phases of the law are also available.

The library receives a substantial appropriation every year for the purpose of continuously expanding the book collection which is further augmented by the gifts of friends and alumni of the School of Law.

The facilities of the General University Library are also available to the students of the School of Law.

INSTITUTE OF LAW AND GOVERNMENT

The Georgia Institute of Law and Government was established in 1953 and operates as an integral part of the School of Law. Here the lawyer, the legal scholar, and those who are skilled in related fields, are enabled to study specifically some of the things the law seeks to accomplish and upon the basis of review of available materials and the application of legal thought and techniques can formulate the groundwork for legislation reasonably calculated to accomplish desired ends. Cooperation with the courts, the Georgia Bar Association, the Judicial Council and other agencies and groups in the State interested in improving the administration of justice makes the work of the Institute through its study of law in action an effective complement to the theoretical studies carried on in the School. The services of the Institute are available for these purposes and it is also engaged in a program of continuing legal education for alumni and the members of the Bar generally.

ADMISSION OF STUDENTS

ENTRANCE REQUIREMENTS

An applicant for admission to the School of Law as a candidate for the degree of Bachelor of Laws must present satisfactory evidence of the fact that he is a graduate of a college of approved standing or that he has satisfactorily completed at least three years of regular residence work at such a college constituting not less than three-fourths of the work acceptable for a bachelor's degree granted on the basis of a four-year period of study. Additional tests and requirements must be satisfactorily completed.

There is no requirement that applicants for admission have college credit in any specified subjects. The prospective law student should seek a broad general education. It is important to be well trained in the use of English and to be able to write effectively. In addition, as many as possible of the following subjects should be studied: History; logic; philosophy; mathematics (at least the elementary courses); enough science to appreciate its importance; some economics; government, and psychology. Some knowledge of sociology and the ability to speak are useful to a lawyer.

The School of Law admits both men and women students as candidates for degrees.

COMBINED COURSES

A student who has completed three years of required work in the College of Arts and Sciences, the College of Business Administration, or the School of Journalism may substitute the first year of satisfactory work in the School of Law for his senior work and thus at the end of his fourth year of study receive the degree of Bachelor of Arts, Bachelor of Business Administration, or Bachelor of Arts in Journalism. However, this first degree will be granted only upon satisfactory completion of 185 quarter hours (186 quarter hours for the degree of Bachelor of Business Administration), exclusive of Physical Education and basic Military or Air Science. On the successful completion of the two remaining years of work in the School of Law he will be entitled to receive the degree of Bachelor of Laws. A student may in this manner receive in six years both the academic and law degrees.

ADVANCED STANDING

The Dean may, in his discretion, give full credit for work done in other law schools which are members of the Association of American Law Schools. Under no circumstances, however, will advanced credit be given for more than two years of work. The last year of work on the basis of which a degree is granted must be taken in this School of Law.

DIRECTIONS TO APPLICANTS FOR ADMISSION

Every applicant for admission to the School of Law must present to the University Director of Admissions a complete transcript of his college work, together with a small photograph of the applicant. Further tests and requirements will be necessary. Full information may be obtained at the time the application is submitted. The matter of registration will be simplified if this transcript is sent to the University Director of Admissions well in advance of the opening of the session which the applicant expects to attend. Such transcript may be procured from the registrar of the college or university at which the student's pre-legal work was done.

DEGREES

Bachelor of Laws. In order to receive this degree a student must have completed not less than 120 quarter hours of work with a weighted average of at least a minimum C.

The 120 quarter hours of work on the basis of which a degree is granted must include all the work of the first year. The following courses in the work of the second and third years are required: Constitutional Law, Equity, Evidence, Georgia Practice and Procedure, Practice Court, and Property II.

In order to receive a degree, a student must satisfy not only the requirements specified above but must also have been in attendance at the School of Law for nine full quarters. The Dean may give credit for work done in other law schools approved by the Association of American Law Schools. However, in all cases the work of the three quarters immediately preceding the granting of a degree must be completed in this School.

A student who completes a full summer session is credited with one quarter of residence toward the degree requirements.

The faculty of the School of Law will, in its discretion, recognize unusual scholastic attainments of genuine distinction by awarding the degree of Bachelor of Laws *summa cum laude, magna cum laude,* or *cum laude.*

Master of Laws. The School of Law has recently inaugurated a program leading to the degree of Master of Laws. A prerequisite is a Bachelor of Laws degree from an approved law school, the work done being of such quality as to indicate that graduate work may be pursued with profit. At least one academic year of full-time study is required, the thesis and not less than one-half of the student's course work being in the general field of law. The program for the degree provides opportunity for the student to specialize in a chosen field or to deepen his knowledge of law generally. Information regarding graduate work can be obtained from the Dean of the School of Law.

General Information. No student may receive a degree without the favorable recommendation of the faculty, and this may be withheld for satisfactory cause although the required work has been completed.

A candidate for a degree, unless excused in writing by the secretary of the faculty of the University, must attend the graduation exercises at which he expects a degree to be conferred upon him.

THE HONOR CODE

In 1930 the student body of the School of Law unanimously adopted the Honor Code. Through the ensuing years it has been subscribed to and administered by the students. Upon entering the School of Law every student is provided with a copy of the Honor Code Constitution, which sets forth the requirements and the machinery for enforcing the same. The requirements are that a student shall act honorably in all relations of student life. Lying, cheating, failure to report any instance of infraction of the Honor Code, or breaking one's word of honor, are condemned. After opportunity to examine the Honor Code Constitution and to acquaint himself with the environment of the School, each student is given the opportunity to sign a pledge by which he promises to observe the provisions of the Honor Code. Upon subscribing to the pledge the student is thereafter bound by the provisions of the Honor Code during the time he remains in the School of Law.

ADMINISTRATIVE REGULATIONS

The general regulations and requirements relating to the University as a whole apply to students in the School of Law except in so far as they may have been modified or changed by the Faculty of the School of Law with the approval of the President of the University. Students in the School of Law will be advised of such changes as may be made from time to time.

REGISTRATION

Students may enter the School of Law at the beginning of the Fall Quarter.

Service fees for late registration will be assessed by the Registrar in accordance with University regulations.

A student is entitled to be registered as a second-year student when he has satisfactorily completed not less than thirty quarter hours of his first year's work.

A student is entitled to be registered as a third-year student when he has satisfactorily completed not less than seventy-five quarter hours of work which must include all first-year required subjects.

No student may, without special permission of the Dean, register for less than twelve hours of work per week in any quarter or take for credit more than sixteen hours of work.

The courses of study in the School of Law are designed to occupy the full time of students, and no student in the School of Law may, without special permission of the Dean, take courses in other schools or departments of the University.

AUDITORS

A student who wishes to attend lectures in a course, but who does not wish to take the examination, may, with permission of the Dean, register as an auditor in that course. A student's record card will indicate the lectures which he attended as an auditor, but no credit toward a degree will be given for work so taken. The School of Law reserves the right to withdraw this privilege for any course in which the instructor deems it inadvisable to admit auditors.

ATTENDANCE

The right to take the examinations, as well as the privilege of continuing one's membership in the School, is conditioned upon regular attendance at classes and the other exercises of the School. A student who during a quarter incurs in any course a number of absences in excess of double the number of times which that course meets per week will be excluded automatically from the examination in that course, and only in exceptional cases will the student be permitted by the faculty of the School of Law to take the examination.

EXAMINATION AND GRADING SYSTEM

Written examinations are given upon the completion of the various courses offered in the School.

The work of each student is graded as follows: A; B+; B; C+; C; D+; D.

Other marks are in use to indicate varying grades of work. They are:

P—(Pass).

F—(Failure). This grade may be converted into a higher grade by repeating the work in the course.

I—(Incomplete). This grade indicates that a student, although doing satisfactory work was, for some reason beyond his control, unable to complete the course.

W—Withdrawn from the course by permission with no grade assigned.

WF—Indicates a course from which the student withdrew while doing unsatisfactory work. This grade carries the F value.

EXCLUSION OF STUDENTS

A student who, at the end of his first three quarters, or at the end of any quarter thereafter, does not have a weighted average grade of the minimum C on all work taken by him since entering the School of Law, shall not be entitled to continue in attendance except by special permission of the Dean and upon such showing and such conditions as the Dean may require. This permission will be granted only in unusual cases.

FEES

Students in the School of Law who are residents of the State of Georgia are required to pay each year (three quarters) a matriculation fee of $210.

Students whose homes are not within the State of Georgia are required to pay each year (three quarters), a matriculation fee of $510.

In the cases of both resident and non-resident students matriculation fees may be paid in quarterly installments.

A student receiving a bachelor's degree from the School is charged a diploma fee of $8, which includes rental of cap and gown.

Each student is required to pay during the registration period at the beginning of each quarter a health service fee of $3.50.

All rates, including matriculation fees, room, and board, are subject to revision at the beginning of any quarter.

EXPENSES

The cost of new law books will average, through the three years, about $60 per year. Second-hand books may be had at less cost.

At the present time law students are accommodated in a Law School wing in Joe Brown Dormitory. A Law and Graduate Students Dormitory has been approved, funds allocated, and plans are being formulated for the construction of this dormitory to serve more adequately the needs of law students. Charges for housing, including certain flat work laundry, are approximately $48 per quarter. Other university dormitories are also available for occupancy by law students.

If a student prefers he may obtain board and lodging in a private home or boarding house. The prices for both rooms and meals vary considerably in the city.

Incidental expenses are entirely within the control of the student and cannot be regulated by the University.

LOAN FUNDS

The University has the Brown Fund, the Lumpkin Fund, and other funds from which loans may be made to students. Law students may apply for these loans on the same basis as other students. Those who desire information regarding loans from these funds should write to the Director of Placement and Student Aid.

The Georgia Bar Association has a fund from which loans can be made to a limited number of deserving students in need of financial assistance. Information regarding loans from this source can be obtained from the Dean of the School of Law.

Mrs. Nettie Elsas Phillips has created a fund of $5,000 in memory of her husband, Benjamin Z. Phillips, a loyal alumnus of the School. The annual income of this fund is available for loans to students in the School of Law. Applications for loans from this source should be made to the Faculty of the School of Law.

OPPORTUNITIES FOR SELF-HELP

A number of students find it possible to earn part of the money necessary to pay their expenses. Those who desire information concerning opportunities for self-help should write to the Director of Placement and Student Aid.

RELIGIOUS ACTIVITIES

The University recognizes that religious influences are essential to the well-rounded development of the individual. There is located on the University campus a University of Georgia Religious Association which does

much to serve the spiritual needs of the students and to provide for them wholesome social environment. The Association cooperates with student pastors and workers maintained by the Athens churches and throughout the year sponsors special programs for and by the students.

FRATERNITIES

In the School of Law are chapters of the Delta Theta Phi, Phi Alpha Delta, and Phi Delta Phi, legal fraternities for men, and Phi Delta Delta, legal fraternity for women. Law students are also eligible for membership in the local chapters of Phi Beta Kappa and Phi Kappa Phi. There are located at the University chapters of a number of the leading social fraternities of the country. Law students are eligible for membership in these fraternities.

LITERARY SOCIETIES

Students in the School of Law are eligible for membership in the two literary societies of the University, Demosthenian and Phi Kappa. The former society has been functioning continuously since 1801 and the latter since 1820. Regular weekly meetings are held at which students have an opportunity to take part in public speaking and debating. The training derived from work done in these societies is of particular value to those preparing themselves for careers at the bar.

PRIZES

Dan MacDougald Memorial Fund. Created on August 24, 1953, by gifts exceeding $5,000.00 from friends and associates of Dan MacDougald, first honor graduate of the Law Class of 1910, to benefit the School of Law and honor Mr. MacDougald's memory. It is administered by The University of Georgia Foundation and provides for an annual cash award of the net income to the first honor graduate of the School of Law.

The Harrison Prize. The Harrison Company, law book publishers of Atlanta, offers as a prize to that member of the graduating class who makes the highest average during his third year a copy of Powell's *Actions for Land.*

The Lawyers' Co-operative Publishing Company Prize. The Lawyers' Co-operative Publishing Company offers annually a prize to the member of the classes in Legal Method who makes the highest grade a copy of Ballentine's *College Law Dictionary.*

Nathan Burkan Memorial Competition. The American Society of Composers, Authors, and Publishers annually offers cash awards of $150 first prize and $50 second prize to those students of the graduating class submitting the two best papers on "Copyright Law."

Phi Delta Phi Prizes. Wilson Inn, the local Chapter of Phi Delta Phi, presents annually to that member of the first year class who makes the highest average during his first year a prize consisting of law books selected by the Inn.

The Redfearn Prize. Mr. D. H. Redfearn, of the Miami bar, offers an award of $50 to that student writing the best article on "Suggested Changes in the Remedial Laws of Georgia."

GEORGIA BAR JOURNAL

Each year the faculty selects a Student Editorial Board from the members of the second and third year classes. Members of the Board prepare notes and comments on recent cases for publication in the Georgia Bar Journal, the official publication of the Georgia Bar Association. The student editors are selected on the basis of scholarship. Academic credit is given for work satisfactory to the Faculty Advisors.

COURSES OF INSTRUCTION

The University reserves the right to withdraw any course or seminar for which the registration is not sufficient and to offer any courses and seminars not here listed should sufficient demand arise and adequate teaching facilities and personnel be available.

FIRST YEAR

Business Organizations I

Three hours

Nature of agency; relation to business associations; creation and termination; scope of employment; express and apparent authority; rights and liabilities of principal and agent and third parties; ratification; Workmen's Compensation.

Mr. Feild

Seavey's *Cases on Agency* and Selected Materials.

Contracts I and Contracts II

Eight hours

An introduction to the law of legally enforceable promises including offers and their acceptance; duration and termination of offers; consideration; requisites of contracts under seal; parties affected by contracts; parol evidence rule; statute of frauds; performance of contracts; effect of illegality; discharge of contracts.

Mr. Hosch

Williston's *Cases on Contracts* (6th edition).

Criminal Law and Procedure

Five hours

The historical development of criminal law as well as the analysis of the necessary elements of crimes, and the consideration of the principal classes of crimes; criminal procedure, including: jurisdiction and venue, arrest, preliminary examination and bail, indictment and information, arraignment, motions and pleas, trial and review.

Mr. McWhorter

Harno's *Cases and Materials on Criminal Law and Procedure* (3rd Edition).

Domestic Relations

Three hours

Certain important aspects of family law, including contracts to marry, marriage, annulment, separation, and divorce; the relation of husband and wife, and parent and child, with reference to property, support, alimony, and custody.

Mr. Jones

McCurdy's *Cases on Domestic Relations* (4th edition).

Legal Method

Four hours

Basic methods, sources, and literature of Anglo-American case law and legislation. Sources and forms of American law; analysis and synthesis of judicial precedents; authoritative hierarchy of precedents; interpretation of statutes and their uses as analogies in case law; problems in the theory of legal reasoning; and the law as a system.

Mr. Henderson

Dowling, Patterson and Powell's *Cases and Materials on Legal Method* (2nd edition).

Civil Procedure

Five hours

General theory of actions as remedies; steps in an action; declarations;

demurrers, pleas and replications; necessary allegations; parties; venue; process; jurisdiction; trials and verdicts; motions after verdicts.

Mr. Green

Magill and Chadbourn's *Cases on Civil Procedure* (3rd edition).

PROPERTY I

Four hours

Actual and constructive possession of real and personal property; rights based on possession; liabilities based on possession; disseisin and adverse possession of land; disseisin and adverse possession of chattels; various methods of acquiring title to personal property; liens and pledges; fixtures; some rights incident to the ownership of land.

Mr. McWhorter

Aigler, Bigelow & Powell's *Cases on Property, Volume 1* (2nd edition).

TORTS I and TORTS II

Eight hours

Principles underlying the laws of civil liability for conduct causing damage to others. Assault, battery, and false imprisonment; negligence as a basis for liability; contributory negligence as a defense; injuries by animals; dangerous use of land; violation of statutory duties as a basis of civil liability; deceit; malicious prosecution; libel and slander; invasion of the rights of privacy; interference with advantageous relations; proximate causation; justification and excuse.

Seavey, Keeton and Thurston *Cases on Torts.*

SECOND YEAR

ADMINISTRATIVE LAW*

Five hours

Administrative power and action and its control by courts; discretion of administrative officials and their power to take summary action; hearings before administrative boards; legal and equitable relief against administrative action; finality of orders of administrative boards.

Mr. Feild

Davis' *Cases on Administrative Law.*

ADMIRALTY*

Three hours

Admiralty jurisdiction; maritime liens; seamen's rights; charter parties; salvage; general average; marine insurance; collision; and limitation of liability. Students are encouraged to do special work in the phases of Admiralty which interest them most.

Sprague and Healy *Cases on Admiralty.*

BUSINESS ORGANIZATIONS II*

Four hours

Distinctions between business corporations and non-incorporated business associations. Formation of business corporations; de facto corporations; stock subscriptions; promoters. Relation between business corporations and the stockholders. Partnership and partners; true partnership and partnership by estoppel; partnership property; powers of partners; relation of partners among themselves; dissolution and winding up. Powers and liabilities of business corporations.

Mr. Cohn

Casebook to be announced.

BUSINESS ORGANIZATIONS III*

Four hours

Management of business corporations. Conflict of interests in corporate transactions. Rights of stockholders: shares; dividends; pre-emptive right;

* Registration open to third-year students.

preferred stock; corporate records; voting rights; minority rights; representative suits. Transfer of stock. Questions of finance. Dissolution. Creditors' rights. Prerequisite is Business Organizations II unless waived by the instructor.

Mr. Cohn

Casebook to be announced.

COMPARATIVE LAW SEMINAR*

Three hours

Historical, analytical and critical comparison of the solution of legal problems by common law and civil law states. Practical problems, especially in the fields of contracts, torts, domestic relations, and quasi contracts.

Mr. Cohn

Schlesinger's *Cases and Materials on Comparative Law.*

CONSTITUTIONAL LAW*

Five hours

Written constitutions and their amendment; power to declare laws unconstitutional; separation of powers; delegations of legislative power; limitations on legislative powers of State and Federal Governments; due process of law; police power; civil rights and their protection; protection afforded to contracts and property.

Mr. Feild

Dodd's *Cases on Constitutional Law* (5th edition).

EQUITY I AND EQUITY II

Seven hours

The nature of equity jurisdiction, the history of equity jurisprudence; powers of courts of equity; specific performance of contracts; subject-matter of the contract; affirmative and negative contracts; contracts for arbitration and appraisal; damages in addition to or in lieu of specific performance; equitable servitudes; consequences of the right to specific performance; partial performance with compensation; interpleader; discovery and accounting; bills quia timet; bills of peace; joinder of parties and class suits.

Mr. McWhorter

Glenn and Redden's *Cases on Equity.* (2nd edition).

EVIDENCE

Five hours

Judicial notice; examination of witnesses; competency and privileges of witnesses; relevancy; direct and circumstantial evidence; illegal obtainment; opinion evidence; hearsay; authentication and production of writings; interpretative evidence; functions of judge and jury; burden of proof; presumptions.

Mr. Green

McCormick's *Cases on Evidence* (2nd edition).

GEORGIA PRACTICE AND PROCEDURE

Four hours

Jurisdiction of the trial and appellate courts; pleadings and procedure in all courts; techniques of the lawyer in the preparation and trial of cases; legal ethics and the standards of the profession.

Mr. Nix

Davis and Shulman, *Georgia Practice and Procedure* and Selected Materials.

INSURANCE

Five hours

General principles of insurance law, emphasizing life and fire, but considering also accident, marine, and guaranty insurance. Making and construction of the contract; insurable interest; concealment; misrepresenta-

tion; warranties; waiver; estoppel; power of agents; measure of recovery; rights of assignees and beneficiaries.

Mr. Feild

Vance's *Cases on Insurance* (4th edition).

INTERNATIONAL LAW SEMINAR*

Four hours

Selected topics on international law; its nature, development and relation to municipal law; sovereignty, birth, recognition and death of nations; continuity of state personality; succession, domain, nationality; international treaties and cooperation and adjustment of differences under special consideration of the Charter of the United Nations.

Mr. Cohn

Casebook to be announced and Selected Materials.

LEGAL ACCOUNTING

Five hours

Principles of accounting, with emphasis on the corporation, including problems of capital, profits, valuation, insolvency, and the analysis of financial statements. Intended especially to provide an accounting background for courses in business units, taxation, trusts, and estates for students who have had no previous training in accounting.

Mr. Heckman

Dohr, Thompson and Warren, *Accounting and the Law.*

MUNICIPAL CORPORATIONS*

Four hours

The law of Municipal Corporations, including the method of creation; the general municipal powers; municipal action to promote public welfare; including zoning and city planning; appropriation of municipal funds; municipal contracts, municipal indebtedness; municipal torts; acquisition and disposition of municipal property; municipal taxes and special assessments.

Mr. McWhorter

Stason's *Cases on Municipal Corporations* (2nd edition).

NEGOTIABLE INSTRUMENTS*

Four hours

The law of bills, notes and checks according to the Uniform Negotiable Instruments Law; its local application; possible changes under proposed Uniform Commercial Code.

Mr. Cohn

Britton's *Cases on Bills and Notes* (4th edition).

PROPERTY II

Five hours

Land titles, including the various estates in land and the mode of conveyancing at common law and under modern statutes; the execution of deeds and the subject matter thereof; creation of easements by implication; covenants for title; estoppel by deed; general principles of the recordation statutes.

Mr. McWhorter

Aigler, Bigelow & Powell *Cases on Property*, Volume I (2nd edition).

SALES*

Four hours

Deals with executory and executed contracts for the sale of personal property and with the rights and remedies of buyers and sellers under the common law and Uniform Sales Act. Possible changes under proposed Uniform Code.

Mr. Cohn

Vold's *Cases on Sales* (2nd edition).

* Registration open to third-year students.

THIRD YEAR

Appellate Brief Writing

Four hours

Actual practice in writing briefs and arguing cases before Courts of Appeal. Each student prepares a written appeal brief and argues before an appeal court. Members of the faculty preside at the hearings.

Mr. Henderson

Selected Materials.

Bankruptcy

Four hours

Historical survey; jurisdiction of the United States and the several states; summary and plenary jurisdiction; administrative officials; petitions and petitioners; bankrupt's discharge; acts of bankruptcy; assets of the estate; claims and distribution; composition procedures.

Mr. Cohn

Hanna and MacLachlan's *Cases on Creditors' Rights* (Consolidated 4th edition).

Conflict of Laws

Four hours

Jurisdiction over persons and things; domicile as a basis of personal jurisdiction; law governing the creation of personal and property rights; the recognition and enforcement by one state of rights created by the laws of another state, including questions arising out of capacity, marriage, legitimacy, and inheritance; the nature and effect of judgments and decrees, and their enforcement outside the jurisdiction where rendered.

Mr. Hosch

Cheatham, Goodrich, Griswold and Reese, *Cases on Conflict of Laws* (3rd Edition).

Damages

Four hours

Types of damages including nominal and exemplary, compensatory, liquidated, direct and consequential; aggravation and mitigation, expenses of litigation; non-pecuniary losses; entirety of recovery.

Mr. Jones

McCormick and Fritz, *Cases on Damages* (2nd edition).

Estate Planning Seminar

Four hours

Primarily a planning and drafting course to train the student in the practical application of the knowledge gained in the Wills, Trusts, Future Interests, and Taxation courses. Problem cases will be assigned and each student will be required to draft the necessary instruments which will best carry out the desired estate plan.

Shattuck, Mayo, *An Estate Planner's Handbook.*
Trachtman, Joseph, *Estate Planning.*

Federal Jurisdiction

Four hours

Nature, source and extent of the Federal judicial power. Original, removal, and appellate jurisdiction and procedure in the Federal Courts. State laws as rules of decision. Practice under the Rules of Civil Procedure.

Mr. Green

McCormick and Chadbourn's *Cases on Federal Courts* (2nd Edition).

Government Regulation of Business

Four hours

Contracts and combinations in restraint of trade; the Sherman anti-trust act; trade marks and trade names; appropriation of competitor's trade values and the misrepresentation of his product; resale price fixing, and

legislation against price discrimination; the public utility concept; valuation and rate-control and regulation of public utilities by State and Federal administrative commissions.

Mr. Henderson

Handler's *Cases on Trade Regulations* (2nd edition) and Selected Materials.

JURISPRUDENCE

Four hours

Principal theories of law; law and morals; the various social and economic interests, and their competition with one another. How interests may come to be recognized as legal rights and enforced in the courts.

Mr. Henderson

Fuller's *Problems of Jurisprudence* (temp. ed.)

LABOR LAW

Four hours

History of the labor movement; interference with advantageous relations; inducing breach of contract; termination of relationship and legislative regulation of anti-union contracts. Conduct of a striker, and the right to strike. Federal intervention in labor controversies, including operation of National Labor Relations Board.

Mr. Nix

Handler's *Cases and Materials on Labor Law.*

LANDLORD AND TENANT

Four hours

The relation of landlord and tenant, including when and under what circumstances the relationship exists; express and implied covenants by lessor and lessee; transfers by lessor and lessee; a study of the various security devices and also of rent; liability for taxes, assessments and repairs; a study of the various methods by which the relationship can be terminated; a brief study of option to purchase agreements and renewals and extensions; the law of the farm.

Mr. McWhorter

Jacobs *Cases and Materials on Landlord and Tenant* (2nd edition).

LEGAL ETHICS

One hour

A comprehensive study of the organization and ethics of the legal profession based upon a consideration of the problems in the application and interpretation of the canons of legal and judicial ethics.

Mr. Hosch

Pirsig's *Cases and Materials on Legal Ethics.*

LEGAL PROBLEMS SEMINAR

Four hours

Designed to introduce third year students to theories of law as practised by successful attorneys, the seminar partially equips them for intelligent performance of their duties when entering the profession. A number of problems are submitted by practising lawyers after consultation with the professor. Students are given a problem, prepare memoranda of vital legal and factual aspects involved, and discuss these with the practitioner and professor in class. Negotiation and reduction to final draftsmanship of the necessary writings are discussed.

Mr. Nix

Selected Materials.

LEGISLATION SEMINAR

Three hours

A course in the techniques of drafting and interpreting legislation and the mechanics of legislative procedure.

Mr. Green

Cohen's *Materials on Legislation.*

MILITARY LAW*

Three hours

Historical and constitutional basis; Judge Advocate Generals' Corps; military justice; habeas corpus; war crimes; laws of war and related international law problems; contracts and procurement regulations; Federal Tort Claims Act.

Mr. Jones

Manual for Courts-Martial 1951 and Selected Materials.

OFFICE PRACTICE

Four hours

A study of the interpretation and draftsmanship of statutes, administrative regulations, contracts, and corporate charters and bylaws; leases, sales agreements, security transactions, and corporate papers; techniques of student draftsmanship and critique.

Mr. Henderson

Cook's *Cases and Materials on Legal Drafting.* (Revised edition).

PRACTICE COURT

Two hours

Acquaints students with actual practice in trial courts. Students are required to prepare pleadings, issue process, file and docket suits, argue cases before court and jury, prepare verdicts, judgments and motions for new trial.

Mr. Green

Selected Materials.

PROPERTY III

Four hours

Among the topics presented are: reversions, possibilities of reverter and rights of entry for condition broken, remainders and executory interests, vesting of future interests, limitations to classes and the rule against perpetuities. Prerequisites are Property I and Property II.

Leach's *Cases and Materials on Future Interests* (2nd edition).

REAL ESTATE TRANSACTIONS

Four hours

A comprehensive course pertaining to the practical aspects of examination of titles, abstracts of titles, title insurance, real estate sales and real estate loans.

Mr. Birchmore

Selected Materials.

RESTITUTION

Three hours

Defects in the formation and in the performance of contracts with special emphasis on available remedies, legal and equitable, contractual and quasi contractual. The right to the restitution of benefits conferred under mistake both of fact and of law.

Mr. Feild

Laube's *Cases on Quasi Contracts.*

SECURITY TRANSACTIONS

Four hours

Problems in suretyship and mortgages. Creation of suretyship relation; surety's rights against the principal debtor; defenses of the surety; the subject of security interests in property; the creation of security devices, their assignment and enforcement; priorities; dealers' financing; pledges; conditional sales; trust receipts.

Mr. Green

Sturges' *Cases on Credit Transactions* (3rd edition).

*Registration open to second-year students.

TAXATION I—FEDERAL INCOME TAX

Five hours

Correlation of the accounting and legal approach to Federal income tax problems from a study of statutes, regulations, and decisions. The taxation of incomes of individuals, partnerships and fiduciaries, with special attention to the problem of tax deductions and credits.

Mr. Heckman

Casebook to be announced.

TAXATION II—FEDERAL TAXES OTHER THAN INCOME TAX

Five hours

Continuation of Taxation I. The legal and accounting problems arising from Federal income tax of corporations, gift taxes and estate taxes.

Mr. Heckman

Casebook to be announced.

TRUSTS

Four hours

Creation and elements of a trust; charitable trusts; resulting and constructive trusts; administration and termination of trusts; the transfer of the beneficial interest and liabilities to third parties.

Scott's *Cases on Trusts* (4th edition).

WILLS AND ADMINISTRATION OF ESTATES

Three hours

Testamentary capacity; formalities of wills; effect of contracts; fraud, undue influence, and mistake; revocation and republication; construction and interpretation. Probate jurisdiction; executors and administrators; descent and distribution; claims of creditors; summary proceedings.

Mr. Feild

Mechem and Atkinson, *Cases on Wills and Administration of Estates.* (4th edition).

THE SCHOOL OF PHARMACY

KENNETH LEE WATERS, A.B., M.S., Ph.D., *Dean*

GENERAL INFORMATION

The School of Pharmacy was created and became an intergral department of the University in 1903. During the first twenty-three years the pharmacy course extended over a period of two years. Students completing the course received the certificate, Graduate in Pharmacy. Beginning in September, 1926, the four-year plan of study leading to the degree, Bachelor of Science in Pharmacy, was inaugurated.

FUNCTIONS OF THE SCHOOL OF PHARMACY

The primary function of the School of Pharmacy is to train young men and women for positions of responsibility in retail pharmacy or for service in one or more branches of pharmacy. It is felt that this can best be done by co-ordinating the instruction in the cultural and scientific courses with the instruction of a distinctly technical nature. An additional function is to give the graduate a proper conception of his professional responsibilities and thereby enable him to correlate his efforts with those of the medical profession and other public health agencies in the interest of public health.

WOMEN IN PHARMACY

Of the estimated 100,000 pharmacists in the United States approximately 5,000 are women. In recent years about fifteen percent of students enrolled in colleges of pharmacy have been women, and the number is steadily increasing. Women function well in all capacities in pharmacy, particularly in the research and control laboratories of the pharmaceutical manufacturers, in hospital dispensaries, and in the retail practice of the profession.

The suitability of pharmacy as a career for women is just beginning to be fully realized. There are no severe physical requirements which place them at a disadvantage; they can deal with the "drug store public"—a majority of which is composed of women—much more skillfully in many phases of pharmaceutical practice than men. In achieving the ambition of owning one's own business, women face highly favorable conditions in pharmacy, with certain special opportunities found in no other field; and, finally, the fact that the place for women in pharmacy is receiving somewhat belated recognition creates particularly auspicious circumstances for those who now select this profession.

FACILITIES

The School of Pharmacy occupies its own building, formerly known as New College. Laboratories, class rooms, and reading rooms are all well lighted and ventilated. A special feature of the instruction is provided in the Dispensing and Pharmacology laboratories which have been handsomely equipped through funds donated by a friend of the School. The building is near the Infirmary, the General Library, and the buildings in which Pharmacy students take most of their courses.

MILITARY TRAINING

All men students in the freshman and sophomore classes who are citizens of the United States and who are not physically disqualified or otherwise exempted must take the basic courses in military or air science and tactics.

Those students who satisfactorily complete the basic training may apply

for admission to the Advanced Military Training. It is the mission of the Senior Division of the ROTC to produce junior officers who have the qualities and attributes essential to their progressive and continued development as officers in the Army and Air Force of the United States.

DEGREES OFFERED BY THE SCHOOL OF PHARMACY

B.S. Pharmacy

The School of Pharmacy offers the degree of Bachelor of Science in Pharmacy upon completion of the required 192 quarter hours of academic work.

Students planning to study pharmacy should enter at the beginning of the freshman year, or not later than the second year, since three academic years (nine quarters) of residence in the School of Pharmacy is required for graduation.

Master of Science

The University of Georgia Graduate School offers the degree of Master of Science with a major in Pharmacy, the Bachelor of Science degree in Pharmacy being prerequisite.

A student will be admitted to candidacy for this degree only after he has shown a reading knowledge of either French or German and after he has passed preliminary written or oral examinations given by the School of Pharmacy. These examinations cover in a general way the division of pharmacy, pharmaceutical analysis, pharmacology, and organic medicinal chemistry. Candidates will choose one of their minors outside the School of Pharmacy. Application for admission to candidacy must be filed with the Dean of the Graduate School before the first day of classes of the final quarter of full residence.

The thesis must be written, approved by the major professor and placed in the hands of the Dean of the Graduate School at least three weeks before the date of graduation.

ADMISSION TO THE FIRST YEAR CLASS

Application for admission should be made as early as possible after graduation from high school. The applicant must have his principal send his complete high school record to the Director of Admissions. No application is complete and consequently can not be accepted or rejected until this record has been received by the Director of Admissions. Applicants who are not in the upper half of the High School class will be required to take the pharmacy aptitude test before consideration will be given to their application.

ADMISSION TO SECOND YEAR CLASS

The number admitted to the second year class is governed by the number of vacancies. To be admitted to the second year class the applicant must submit a minimum of forty quarter hours which count toward the B.S. in Pharmacy degree. Ten hours must be in Chemistry and the remaining 30 chosen from the following: Human Biology, Vertebrate Zoology, English, College Algebra, Physics, Economics, or Political Science. Selection of students for admission to the second year class will be based on the previous collegiate record of the applicant and his general aptitude for Pharmacy. Applicants should have a "C+" average before applying for admission to the second year class. Those applicants having a lower average must take the pharmacy aptitude test before consideration will be given to their application.

This School, and other member Schools of the American Association of Colleges of Pharmacy, require a student to spend a minimum of nine quarters in a school of pharmacy. Because of the sequence of courses, this generally requires three calendar years, regardless of the amount of advanced credit offered.

Application for admission to the second year class, and an official transcript of all college work taken must be sent to the Dean of the School of Pharmacy. Applications should be submitted as early as possible. The Committee on Admissions usually makes the initial selection during the Spring Quarter.

PRACTICAL EXPERIENCE

Practical experience, in order to be valid for purposes of licensure, must be obtained after registration in a college of pharmacy recognized by the Georgia State Board of Pharmacy. No credit for practical experience is given when obtained concurrently with school work.

All intern pharmacists must notify the Joint Secretary, State Examining Boards, 111 State Capitol, Atlanta, Ga., within five days after starting to work, if credit for practical experience is desired. The pharmacist supervising the intern must also notify the Joint Secretary that the intern is under his supervision. Termination of any portion of the internship must be reported by the pharmacist and the intern.

All practical experience must be recorded in a notebook in diary form and must be certified by a pharmacist or pharmacists supervising the experience. Upon the completion of the internship, the notebook must be notarized and submitted to the State Board of Pharmacy at the time of the examination.

THE COOPERATIVE PLAN OF STUDY

Under this plan of study the student will make arrangements with a pharmacist in any town in the state to work alternate quarters while attending the University. It will be advantageous to the pharmacist, the student and to the University if students can be placed in pairs. The cooperative plan of study has the advantage over the usual plan of study in that it permits the student to obtain practical experience without interference with his scholastic duties. The plan has the further advantage in that it will enable a student with limited financial support to pay his own way through school.

Requirements of the cooperative plan of study are exactly the same as those for the conventional program. Twelve quarters of college work is required, nine of which must be in residence at the School of Pharmacy. If the student desires to reduce the length of time he must spend at the University he may take certain non-professional courses in an accredited school or University Off Campus Center. These courses may be taken either prior to starting the Co-op plan or during "work quarters," but in no case can the residence requirement be reduced below nine quarters.

Only students with proven ability will be accepted for the cooperative plan of study. Evidence of the student's ability will be based on previous college record—or if the applicant has no previous college training—on the recommendation of the University Guidance Center in Athens who will administer an aptitude test to determine the applicant's ability to do satisfactory college work. It is desirable that the applicant have the recommendation of a registered pharmacist.

Applicants interested in the cooperative plan of study should write to the Dean, School of Pharmacy, University of Georgia, Athens, Georgia.

SPECIAL REGULATIONS

Class Attendance—Students in the School of Pharmacy must observe strict absence regulations administered by the Dean of the School of Pharmacy. Absence from classes or other evidence of indifference on the part of a student results in failures; and, since students in the School of Pharmacy are preparing for a definite professional career, indifference to college work will not be condoned. A student who incurs an excessive number of absences may be placed on probation or dismissed from the University.

Special Scholarship Requirements—In addition to the general Univer-

sity requirements relative to scholarship, the following requirement must be met by all pharmacy students:

"Any student registered in the School of Pharmacy who, at the end of the second year, does not have a weighted average of 70 or more in all work taken since entering the School of Pharmacy, will not be entitled to continue in attendance in the School except by special permission of the Pharmacy faculty. Such permission will be granted only in exceptional cases."

At least a grade of "C" must be earned in all required Pharmacy courses and approved substitutes, before credit for the course will be given toward graduation.

Classification of Students—The academic and the School of Pharmacy classification of students may not necessarily be the same. Other undergraduate schools and colleges of the University require students to have completed a minimum of thirty-seven hours with an average grade of "C" or better to be classified as a sophomore. The School of Pharmacy requires a student to have completed forty hours with an average grade of "C" or better to be classified as a second-year student. To be classified as a third-year student, eighty-five hours must have been completed and as a fourth-year student, one hundred and forty-two hours must have been completed. In classifying students, only those courses which may be credited toward the B.S. in Pharmacy degree will be counted. An average grade of "C" must be made in these courses. A student may not be permitted to take second-year, third-year or fourth-year courses in the School of Pharmacy unless he is classified as a second-year, third-year or fourth-year student respectively. The classification under which a student registers at the beginning of the academic year will continue through that year.

Electives—Ten hours of non-professional non-applied elective courses will be required for graduation. Students who have indicated they will not enter retail pharmacy may petition the faculty for permission to make suitable substitutions in related fields.

Special Examinations—All entering freshmen are required to take regular placement examinations. Pharmacy applicants may be required to take other examinations which will show their general aptitude for Pharmacy. Students showing a deficiency in mathematics or in reading ability may be required to take certain non-credit courses to remove this deficiency.

Limitation on Student Employment—Since it is realized that the classroom work is only a part of the student's program in securing an education, a student should not accept employment which will interfere with his scholastic program. A student who makes a poor scholastic record will be required to reduce his working load or his scholastic load.

STUDENT AID

The Women's Auxiliary of the Georgia Pharmaceutical Association lends a small amount of money each year to deserving students in the junior and senior years who are making creditable marks. This loan is handled by the Auxiliary on recommendation of the Dean of the School of Pharmacy.

Other University loan funds are open to pharmacy students. Generally these are made available only to students who have completed their first year's work.

THE ROBERT CUMMING WILSON AWARD

The Robert Cumming Wilson Award is given to a member of the senior class in pharmacy who excels in scholarship, character and interest in the ideals of pharmacy. The amount of this award depends on the income from a fund set aside for this purpose by I. Z. Harris, Class of 1915. The minimum is fifty dollars.

ATLANTA DRUG AND CHEMICAL CLUB AWARDS

The Atlanta Drug and Chemical Club annually awards two cash prizes of twenty-five dollars each. One prize is given to an honor student who excels in pharmacy, and the other is given to an honor student who excels in pharmaceutical chemistry. Fourth year students are eligible for the prize.

RHO CHI AWARD

The Alpha Kappa Chapter of Rho Chi, national honorary Pharmaceutical Society, each year offers an award to an outstanding first year student.

OTHER AWARDS

Additional awards are made by pharmaceutical firms in recognition of outstanding achievements in extra-curricular activities and also to students judged outstanding in practical pharmacy. These prizes usually consist of coveted pharmacy reference books.

FOUNDATION SCHOLARSHIPS

The American Foundation for Pharmaceutical Education offers scholarships to deserving students who need financial assistance to complete their education. Third and fourth year students with high academic averages are eligible.

STUDENT ACTIVITIES

University Activities—Since the School of Pharmacy is an integral part of the University, its students participate in all University educational, fraternal, literary, and social activities.

Student Branch of the American Pharmaceutical Association—In addition to general activities of the University, students in the School of Pharmacy maintain a Student Branch of the American Pharmaceutical Association, the function of which is to establish a closer fraternal and social relationship among students in pharmacy and to broaden their outlook by bringing in speakers on topics related to some health activity.

All students are urged to become active members of this organization.

Georgia Pharmacist—The official publication of the Student Branch of the American Pharmaceutical Association is the *Georgia Pharmacist.* It is published by the students and is mailed to all pharmacists in the State of Georgia and to the alumni of the School of Pharmacy.

Rho Chi—Alpha Kappa Chapter of Rho Chi was established at the University of Georgia in 1949. Charters for chapters of this organization are granted only to groups in schools or colleges that are members in good standing of the American Association of Colleges of Pharmacy. Eligibility for membership in the Society is based on high attainment in scholarship, character, personality, and leadership.

Kappa Psi—The professional pharmaceutical fraternity of Kappa Psi, Gamma Phi Chapter, was established at the University of Georgia in 1951. Eligible students are selected by the membership of the fraternity.

Phi Delta Chi—The professional pharmaceutical fraternity of Phi Delta Chi, Alpha Iota Chapter, was established at the University of Georgia in 1937. After a period of inactivity, this Chapter was reactivated in 1952. Eligible students are selected by the membership of the fraternity.

Lambda Kappa Sigma—The women's professional pharmaceutical sorority of Lambda Kappa Sigma, Alpha Kappa Chapter, was established in 1954. Eligible women students are selected by the membership of the sorority.

ACCREDITATION

The School of Pharmacy, The University of Georgia, Athens, Georgia, is accredited by the American Council on Pharmaceutical Education as a Class A school.

REQUIRED CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN PHARMACY

A total of 192 hours, in addition to Military Science or Air Science and Physical Education, are required for graduation.

First Year

Fall	Hours	Winter	Hours	Spring	Hours
Chemistry 21	5	Chemistry 22	5	Chemistry 23	5
Pharmacy 11	1	Pharmacy 12	1	Pharmacy 13	1
English 2x	5	English 2y	5	Political Science 1	5
Mathematics 101x	5	Human Biology 1	5	Human Biology 2	5
Mil. Sci. 1a or Air Sci. 5a	2	Mil. Sci. 1b or Air Sci. 5b	2	Mil. Sci. 1c or Air Sci. 5c	1
Physical Education	0	Physical Education	0	Physical Education	0
	18		18		17

Second Year

Fall	Hours	Winter	Hours	Spring	Hours
Chemistry 340a	5	Chemistry 340b	5	Chemistry 380	5
Zoology 26	5	Economics 5x	5	Physics 20	5
Pharmacy 301	3	Pharmacy 302	3	Pharmacy 303	3
Pharmacy 321	3	Pharmacy 322	3	Pharmacy 323*	3
Mil. Sci. 2a or Air Sci. 6a	2	Mil. Sci. 2b or Air Sci. 6b	2	Mil. Sci. 2c or Air Sci. 6c	1
Physical Education	0	Physical Education	0	Physical Education	0
	18		18		17

Third Year

Fall	Hours	Winter	Hours	Spring	Hours
Pharmacy 331	5	Pharmacy 332	5	Pharmacy 333	5
Pharmacy 377	5	Pharmacy 378	3	Pharmacy 376	5
Pharmacy 341	3	Pharmacy 342	3	Pharmacy 343	3
**Elective	5	Bacteriology 350	5	Bacteriology 352	3
	18		16		16

Fourth Year

Fall	Hours	Winter	Hours	Spring	Hours
Pharmacy 381	5	Pharmacy 382	5	Pharmacy 383	5
Elective**	5	Pharmacy 310	5	Pharmacy 390	3
Pharmacy 334	3	Pharmacy 335	3	Pharmacy 336	3
Pharmacy 392	3	Pharmacy 393	3	Pharmacy 394	3
	16		16		14

Fourth Year Class Trips—Members of the fourth year class annually visit hospitals, pharmaceutical manufacturers, and wholesale houses. Although not required, all fourth year students are urged to participate in such excursions.

*Pharmaceutical arithmetic achievement test prerequisite for this course.
**This elective must not be a professional or applied course.

DESCRIPTION OF COURSES

The University reserves the right to withdraw any course for which the registration is not sufficient and to offer courses not here listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated all courses meet five times a week and carry five hours credit.

1x. Remedial Pharmaceutical Arithmetic. 3 hours. *Mr. Hartman.*
A course designed for students who are deficient in the principles of elementary arithmetic. Students showing deficiency in pharmaceutical arithmetic achievement tests will be required to take the course as a prerequisite to Pharmacy 323.

11-12-13. Pharmacy Orientation. 3 hours. (1 hour each quarter). *The Staff.*
Lectures will serve to initiate the student into the profession of pharmacy. The history and ethics of the profession will be discussed. A study of pharmacy literature, and the system of weights and measures will be introduced.

321. Introductory Pharmacy. 3 hours. Prerequisite: Chemistry 22. *Mr. Hartman* and *Mr. Waters.*
A discussion of the technical operation of pharmacy, including definitions and official preparations.

322. Introductory Pharmacy. 3 hours. Prerequisite: Chemistry 22 and Pharmacy 321. *Mr. Millikan* and *Mr. Waters.*
The inorganic preparations of pharmacy with the special application of chemistry to the official preparations.

323. Introductory Pharmacy. 3 hours. *Mr. Hartman.*
(Those students showing deficiency in the pharmaceutical arithmetic achievement tests will be required to take Pharmacy 1x as a prerequisite for this course.)
A study of calculations involved in the practice of the profession of pharmacy.

331-332-333. Junior Dispensing. 15 hours. (5 hours each quarter). Three hours lecture and six hours laboratory weekly. Prerequisite: junior classification. *Mr. Hartman, Mr. LaRocca,* and *Assistant.*
The general consideration of the underlying principles of prescription compounding. Laboratory work will involve the various types of preparations, and the filling of simple prescriptions.

334-335-336. Senior Dispensing. 9 hours. (3 hours each quarter). One hour lecture and six hours laboratory weekly. A continuation course of 331-332-333. Prerequisite: Senior classification. *Mr. Hartman, Mr. LaRocca,* and *Assistant.*
A thorough study of prescription compounding, with emphasis on prescription reading and incompatibilities. The filling of prescriptions received by telephone is stressed. The lectures present and discuss the problems confronting the practicing pharmacist. A knowledge of typing is desirable for this course.

378. Advanced Theoretical Pharmacy. 3 hours. Prerequisite: Chemistry 380. Two lecture and three hours laboratory. *Mr. Millikan* and *Mr. Waters.*
A study of certain theoretical concepts of pharmaceutical preparations, including physicochemical considerations of stability and of manufacturing.

395. Household and Animal Health Products. (Elective). 3 hours. Three hours lecture and recitation. Prerequisite: Fourth year classification. *The Staff.*
The study of fumigants, rodenticides, insecticides, fungicides, weedicides, parasiticides and toxins, serums, vaccines and related products commonly sold in the drug store. Ethics, economic and legal aspects will be stressed.

398. Undergraduate Research Problem. (Elective). 3 to 5 hours. Prerequisites: Fourth year classification with an average grade of "B." *The Staff.*
An introduction to research. The course is designed to acquaint the student with the techniques of research. A problem will be assigned and the student will be expected to do library and laboratory work necessary to prepare an acceptable report.

520. Institutional Pharmacy. 3 hours. Three lecture periods. Prerequisites: Pharmacy 336. *Mr. LaRocca* and *Mr. Waters.*
A study of institutional pharmacy including the large professional store. Methods of purchasing, stock control, storage, coordination of operations, and management of related departments are included.

521. Special Topics in Pharmacy. 2 hours. Two lecture periods. *Mr. Millikan.*

522. Pharmaceutical Technology. Two lecture and nine laboratory hours weekly. *Mr. Millikan* and *Mr. Waters.*

Lectures to include a study of different equipment used in pharmaceutical manufacturing. Laboratory work to involve pilot plant scale manufacturing.

523. Advanced Pharmaceutical Technology. Two lecture and nine laboratory hours weekly. Prerequisite: Pharmacy 522. *Mr. Millikan* and *Mr. Waters.*

Lecture and laboratory work will place special emphasis on the more complicated procedures encountered in manufacturing. Such topics as enteric coating, tablet granulations, special and parenteral solutions, and organization of pharmaceutical manufacturing establishments will be taken up.

PHARMACOGNOSY

301-302-303. Pharmacognosy. 9 hours (3 hours each quarter). Three hours lecture and recitation. *Mr. Feurt* and *Mr. Whitworth.*

A study of the history, distribution, collection, commerce, preservation, classification, active constituents, titles, synonyms, definitions, official preparations, therapeutic use and common proprietaries of crude vegetable drugs. Specimens are furnished each student for macroscopical and organoleptic identification.

PHARMACOLOGY

381-382-383. Pharmacology. 15 hours (5 hours each quarter). Three hours lecture and six hours laboratory weekly. Prerequisites: Zoology 26, Pharmacy 333 and 376. *Mr. Feurt* and *Assistant.*

An introduction to pharmacology dealing with the modification of the normal physioloigcal processes of the body by the presence of the more common drugs used in medicine. Drugs of the United States Pharmacopoeia, National Formulary, and selected items from the New and Non-Official Remedies are discussed according to pharmacological action, toxicology, and therapeutic application. Some attention will be given to problems related to public health and first aid.

PHARMACEUTICAL ADMINISTRATION

310. Pharmaceutical Accounting. Five hours lecture and recitation. *Business Administration Staff.*

Elementary accounting principles and procedures suitable for small and medium-sized drug stores operated by independent owners.

390. Pharmaceutical Laws. 3 hours. Three hours lecture and recitation. *Mr. Waters.*

A review of the various laws involved in pharmaceutical practice.

392-393-394. Drugstore Operations. 9 hours (3 hours per quarter). Two hours lecture and three hours laboratory weekly. *Mr. Dobbs.*

A study of the methods, policies and practices pertaining to modern merchandising techniques, as buying, pricing, sales promotion, etc., the planning of lay-out and physical equipment that has proven successful in drug stores of America. This course will also cover the principles of stock control and advertising.

Economics 5x. Principles of Economics. *The Economics Staff.*

A description and critical analysis of the organization of modern society from an economic point of view, with a brief introduction to the theory of value and distribution.

Speech 3. Oral Communication.* 3 hours. *Speech Staff.*

Objective analysis of individual speech habits and an individually planned study of appropriate drills and activities for improving the skills of everyday speech.

Business Administration 7. Personal Typing.* No academic credit (five periods a week). *Business Administration Staff.*

An introductory course in typewriting designed to teach in a minimum of time typewriting for personal use. Should be taken before registering for Pharmacy 334.

Business Administration 8. Business Correspondence.* 3 hours. *Business Administration Staff.*

Qualities and principles of effective business letter writing; practice in writing various types of letters and reports.

*Elective credit—highly recommended for all students.

JOURNALISM 577. PUBLIC RELATIONS. (PUBLICITY).* *Journalism Staff.*
A study of problems and techniques. Analyses of publicity campaigns and discussions of the ways in which various media can be utilized.

PHARMACEUTICAL CHEMISTRY

341-342-343. ORGANIC PHARMACEUTICAL CHEMISTRY. 9 hours. (3 hours each quarter). Prerequisite: 321-322-323 and Chemistry 340 a-b. *Mr. LaRocca.*
A study of the chemistry of important pharmaceutical organic products to include sources, properties, reactions, and methods of production, with the general consideration between relationship of structure and activity of natural and synthetic organic medicinals which are used in pharmaceutical practice.

376. BIOPHARMACY. Three hours lecture, six hours laboratory. Prerequisite: Chemistry 340-b. *Mr. Millikan.*
A study of biochemistry and those problems closely related to pharmacy which are of importance to the practicing pharmacist.

377. PHARMACEUTICAL ASSAY. Two hours lecture, nine hours laboratory. Prerequisite: Chemistry 380. *Mr. Millikan* and *Assistants.*
A study of the official and standard methods of assay of some common pharmaceuticals. The student is familiarized with instrumentation procedures as used by the modern pharmaceutical firm.

The following courses in the Pharmacy Curriculum are taught by the faculty of the College of Arts and Sciences. A description of the courses may be found in the College of Arts and Sciences section of this Catalogue.

BIOLOGY 1-2, Human Biology; BACTERIOLOGY 350, General Microbiology; BACTERIOLOGY 352, Microbiology and Disease; CHEMISTRY 21-22, Ingoranic Chemistry; CHEMISTRY 23, Qualitative Inorganic Analysis; CHEMISTRY 340 a-b, Organic Chemistry; CHEMISTRY 380, Quantitative Inorganic Analysis; ENGLISH 2x-y, Composition; MATHEMATICS 101x, College Algebra; PHYSICS 20, Physics Survey; POLITICAL SCIENCE 1, American Government; ZOOLOGY 26, General Zoology.

GRADUATE COURSES

810. PHARMACEUTICAL CONTROL AND ANALYSIS. Two lecture and nine hours laboratory weekly. *Mr. Millikan* and *Mr. Waters.*
Lectures, reading and analytical procedures of more complicated nature taken from USP, NF and AOAC. Pharmaceutical control methods are studied.

811-812. ORGANIC MEDICINAL PRODUCTS. 5 hours each quarter. Five lecture periods per week each quarter. *Mr. LaRocca.*
The chemistry and synthesis of antihistaminics, etc. Special emphasis to be placed on correlation of structure with physiological activity and industrial application of processes.

814-815. ORGANIC PHARMACEUTICAL SYNTHESIS. 5 hours each quarter. One consultation and eight laboratory hours per week each quarter. *Mr. LaRocca* and *Mr. Waters.*
Application of synthetic procedures in the preparation of various medicinal chemicals and their intermediates.

820. INSTITUTIONAL PHARMACY. 3 hours. Three lecture periods. Prerequisite: Pharmacy 336. *Mr. LaRocca* and *Mr. Waters.*

821. SPECIAL TOPICS IN PHARMACY. 2 hours. Two lecture periods. *The Staff.*
A study of newer pharmaceutical preparations and to include the detailed examinations of preparations involving chemical and special assigned topics.

831. STUDIES IN PHARMACODYNAMICS. Three hours lecture and four hours laboratory weekly. *Mr. Feurt.*
Lectures, library assignments, and laboratory work dealing with the mechanics of the interaction of drugs and living matter. Students will participate in departmental research.

832. METHODS IN PHARMACOLOGICAL RESEARCH. *Mr. Feurt.*
Lectures and library projects designed to acquaint the student with current methods and techniques used in the pharmaceutical evaluation of drugs.

Address all correspondence to the Dean, School of Pharmacy, University of Georgia, Athens, Georgia.

*Elective credit—highly recommended for all students.

THE COLLEGE OF AGRICULTURE

ADMINISTRATIVE OFFICERS

Calvin Clyde Murray, B.S., M.S., Ph.D., *Dean of the College of Agriculture* and *Director of the Experiment Stations and Extension Service.*

George Harris King, B.S.A., M.S.A., *Associate Director of Experiment Stations.*

William Abner Sutton, B.S.A., *Associate Director of the Agricultural Extension Service.*

Robert Stevenson Wheeler, B.S., Ph.D., *Associate Director of Resident Instruction.*

Linton Webster Eberhardt, B.S.F., *Assistant Director of the Agricultural Extension Service.*

Robert James Richardson, B.S.A., *Assistant Associate Director of the Agricultural Extension Service, 4-H Clubs.*

Eddye Belle Ross, B.S.H.E., *Assistant Associate Director of the Agricultural Extension Service, Home Demonstration.*

Louis Irvin Skinner, B.S.A., *Assistant Director of the Agricultural Extension Service.*

Frances Leonora Anderson, B.S.H.E., *District Agent (Extension).*

John Edward Bailey, B.S.A., *Associate Horticulturist* and *Superintendent of the Mountain Experiment Station* (Blairsville, Georgia).

Ida Lou Bell, B.S.H.E., *District Agent (Extension).*

Nellie Clyde Boyd, B.S., M.S., *District Agent (Extension).*

Orien Leffretts Brooks, B.S.A., *Branch Station Superintendent* (Midville, Georgia).

Edmund Broadus Browne, B.S., M.S., Ph.D., *Resident Director of the College Experiment Station.*

Sidney Grigsby Chandler, B.S.A., *District Agent (Extension).*

Otis Bryant Copeland, B.S.A., M.S.A., *Editor (Extension).*

Fred Frazier Cowart, B.S., Ph.D., *Resident Director of the Georgia Experiment Station* (Experiment, Georgia).

Alice Gorton Drake, B.S.H.E., *District Agent (Extension).*

Richard Lawrence Dyer, *Assistant Comptroller* (Tifton, Georgia).

Julia Grant, B.B.A., *Assistant Comptroller* (Experiment, Georgia).

Dean Dillard Hayes, B.S.A., *Branch Station Superintendent* (Calhoun, Georgia).

Cecil E. Johnson, B.S.A., *District Agent (Extension).*

Frank Pickett King, B.S.A., M.S.A., Ph.D., *Resident Director of the Georgia Coastal Plain Experiment Station* (Tifton, Georgia).

William Anson King, B.S.A., *District Agent (Extension).*

Lonnie Richard Lanier, B.S.A., *District Agent (Extension).*

Neal Duncan McRainey, B.S.A., *Branch Station Superintendent* (Plains, Georgia).

Louise Meeks, B.S.H.E., *District Agent (Extension).*

Audrey Matilda Morgan, B.S., M.Ed., *District Agent (Extension).*

Joel Condor Richardson, B.S.A., *District Agent (Extension).*

Lloyd Claiborne Westbrook, B.S.A., *District Agent (Extension).*

GENERAL INFORMATION

Each state has one institution of higher learning known as a Land-Grant College or University which is approved by officials of the Federal Government for giving college instruction in agriculture and related fields. In Georgia that institution is the University of Georgia, of which the College of Agriculture is an integral part.

The University of Georgia is a member of the American Association of Land-Grant Colleges and Universities. It has been approved by the United States Commissioner of Education for giving college instruction in agriculture and agricultural engineering. The University receives grants from the Federal Government to aid in financing its educational program in these fields. It is officially recognized and approved by the United States Department of Agriculture and other agencies of the Federal Government concerned with farming and related occupations.

The College of Agriculture provides a coordinated and integrated program of research, college teaching, and extension services. It embraces the agricultural experiment stations and the Agricultural Extension Service. Responsibility for administration is vested in the Dean and Director, who is responsible to the President of the University. Under the Dean and Director there are three associates, as follows: an associate director in charge of instruction; an associate director in charge of extension work; an associate director in charge of experiment stations. At each of the experiment stations, including Athens, Experiment, and Tifton, there is a resident director in charge.

In the College of Agriculture there are eleven subject matter fields or divisions, each of which embraces research, teaching, and extension, and each of which is in the charge of a chairman. These divisions are: agronomy, agricultural economics, agricultural engineering, animal husbandry, dairy, entomology, food processing, horticulture, landscape architecture, plant pathology, and poultry. In addition, there are several schools and colleges with which relationships have been established for conducting programs including teaching, research, and extension services; these include fields such as bacteriology, botany, chemistry, education, entomology, forestry, home economics, and veterinary medicine.

COURSES AND DEGREES

The College of Agriculture offers degree courses in agriculture, agricultural engineering, and landscape architecture. It is also recommended that students seeking admission to the School of Veterinary Medicine register in the College of Agriculture while enrolled in the pre-veterinary program.

Upon completion of the twelve-quarter course outlined, students registered in agriculture may receive the degree of Bachelor of Science in Agriculture, and students in agricultural engineering, the degree of Bachelor of Science in Agricultural Engineering.

The Department of Landscape Architecture, a department in the College of Agriculture, offers two degree courses: one, the professional degree B.L.A. —Bachelor of Landscape Architecture; the other, B.S.L.A.—Bachelor of Science in Landscape Architecture.

The Master of Science degree is offered in agriculture, agricultural engineering, and landscape architecture. A minimum of three quarters in residence after completion of the bachelor's degree is required of all candidates. A longer period is necessary for students holding assistantships. For further information concerning this degree, consult the Graduate Bulletin.

Students wishing to prepare themselves for the business of farming but having no desire to secure a degree will be awarded a Certificate of Attainment upon completion of the work outlined for the first six quarters. The course has been planned with this objective in mind.

Many short courses of a practical and intensive nature are offered by

the College of Agriculture. Announcements of these courses will be made throughout the year. Any course will be offered for which there is sufficient demand. A citizen of Georgia desiring to take any such course should write to the Dean of the College of Agriculture, indicating the field or problem in which instruction is desired.

ADMISSION REQUIREMENTS FOR VETERINARY MEDICINE

In order to matriculate in the School of Veterinary Medicine, a student must present a minimum of 90 quarter hours' credit, exclusive of Basic Military and Physical Education, with a grade of C or better.

To meet these requirements, a student may register in the College of Agriculture and take the following courses:

English 2x-2y
Chemistry 21-22
Mathematics 101x
Botany 21-22
Animal Husbandry 1
Poultry 60
Basic Military or Air (First Year)
English 6
Physics 20
Dairy 3
Zoology 25 and 26
Political Science 1
Chemistry 340a and 340b
Basic Military or Air (Second Year)
Electives:
Business Administration 6x, 6y
Entomology 374
Zoology 355, 356

All candidates for admission into the entering class in September each year will be required to take during the preceding May or June a veterinary medical aptitude test. The results of this test will become a part of the student's credentials for admittance into the School of Veterinary Medicine.

Recently, the School of Veterinary Medicine has had many more applicants than the maximum number of 57 accepted each year; consequently, any student who is registered in the College of Agriculture may, upon completion of pre-veterinary requirements, continue with the agricultural curriculum, should he fail to gain admittance to the School of Veterinary Medicine. Such students will be able to apply all credits earned to requirements for the B.S.A. degree.

B.S.A. DEGREE IN CONJUNCTION WITH D.V.M. DEGREE

A student in the School of Veterinary Medicine may in conjunction with his work toward the D.V.M. degree, complete the requirements for the B.S.A. degree by taking three quarters of additional work prior to, during or subsequent to his work in the School of Veterinary Medicine. A major in Animal Husbandry, Dairy, Entomology or Poultry would require the least amount of extra course work on the part of the student.

It is preferred that students working for both the B.S.A. and D.V.M. degrees complete three years of pre-veterinary work in the College of Agriculture. The first two years are the same as those for BSA students except Chemistry 340a and b are substituted for Chemistry 260 and one elective in the sophomore year. The third year should be directed toward completing courses for the major, one minor and certain science selections. The B.S.A. would be granted after the student had completed the first year in the School of Veterinary Medicine.

AGRICULTURAL CURRICULUM FOR THE B.S.A. DEGREE

The curriculum in the freshman and sophomore years permits some flexibility of choice between botany and zoology, in courses in agricultural engineering, and in five hours chosen from electives. Should the student have decided on the field in which he will later specialize, he should consult the department concerned. On the other hand, if he desires a general program he will be assisted by the Associate Director of Resident Instruction.

All freshman and sophomore B.S.A. students and pre-veterinary students

are counseled by special advisers appointed by the Associate Director of Resident Instruction. Juniors and seniors are counseled by the head of the department of their major subject.

Specialization begins in the third or junior year. Before the close of the second year, each student should select the department in which he wishes to major. In some instances he must also select the special concentration for which he wishes to register. Then he should prepare a program of study to be approved by the head of the department in which the student intends to major.

Students in the College of Agriculture working for the degree of Bachelor of Science in Agriculture may major in the following departments: (1) *Agricultural Chemistry;* (2) *Agricultural Economics;* (3) *Agricultural Extention Training;* (4) *Agronomy,* including soils; (5) *Animal Husbandry;* (6) *Botany;* (7) *Dairy;* (8) *Entomology;* (9) *Food Technology;* (10) *General Agriculture;* (11) *Horticulture;* (12) *Plant Pathology and Plant Breeding;* (13) *Poultry;* and (14) *Agricultural Education.*

There is a demand for College of Agriculture graduates trained in the various media of communications. Because of this, arrangements have been made with the School of Journalism for students in any department in the College of Agriculture to obtain the equivalent of a major in agricultural journalism. This is possible because of the flexibility permitted in the selection of minor courses and general electives.

Generally the courses in agricultural journalism will be selected from the following journalism courses: 1, 350 or 368—Introductory Courses; 456—Magazines; 557—Advertising; 558—Feature Writing; 559—Book Reviewing; 577—Public Relations; 580—Radio and Television; 581—Radio and Television News; 582—Radio and Television Programming.

BACHELOR OF SCIENCE IN AGRICULTURE

Freshman and Sophomore Years

	Hours		Hours
Agricultural Economics 4	3	Agricultural Economics 10	3
Agronomy 1	3	Agricultural Engineering 20, 60, 70, 280, 205, 206	6
Animal Husbandry 1	3	Agronomy 10	5
Botany 21-22, Zoology 25-26	15	Chemistry 260	5
Chemistry 21-22	10	English 6	5
Dairy 3	3	Forestry 2	3
English 2 x-y	10	Mathematics 101x	5
Horticulture 1	3	Physics 20	5
Agriculture 1	1	Political Science 1	5
Military Science 1 or Air Science 5	5	Poultry 60	3
Physical Education 1	0	Military Science 2 or Air Science 6	5
		Physical Education 2	0
		Elective	5
Total	56	Total	55

JUNIOR AND SENIOR REQUIREMENTS

Major ..... 20 Hours

In Agricultural Chemistry, Agricultural Economics, Agricultural Education, Agricultural Extension Training, Agronomy, Animal Husbandry, Botany, Dairy, Entomology, Food Technology, General Agriculture, Horticulture, Plant Pathology or Poultry.

Science Selections ..... 25 Hours
Bacteriology 350, 461, Botany 375, 380, Agronomy 423, Chemistry 23, 380, 451, Economics 5x, 312, Geology 25, Mathematics 101y, 110, 356, Sociology 431, 433, Plant Pathology 353, 358, Veterinary Hygiene 200, Entomology 374, Zoology 390.

Minor 1 ..... 10 Hours
May be in any one department of the University.

Minor 2 ..... 10 Hours
Must be in the College of Agriculture.

Special Requirements—not more than ..... 20 Hours

General Electives—not less than ..... 10 Hours

Total Junior-Senior Requirements ..... 95 Hours

Total Freshman-Sophomore Requirements ..... 101 Hours*

Total Course Requirements ..... 196 Hours*

ORIENTATION COURSE FOR COLLEGE OF AGRICULTURE FRESHMEN

1. (Agriculture) Orientation. 1 hour. *Mr. Wheeler.*
A course designed to aid agricultural freshmen adjust to college life and to better understand the occupational opportunities available to graduates. The functions of the total university, use of libraries, study procedures, organization and functions of the College, state and federal agricultural agencies, personality development, social behavior, student activities, planning a program of study and career opportunities are discussed.

REQUIRED ARTS AND SCIENCE COURSES

Approximately one-third of the course requirements in the first two years are offered by the College of Agriculture; the remainder by the Armed Services Division, College of Education, School of Forestry, and the College of Arts and Sciences. Since the departments of Botany, Chemistry, and Entomology, which are units of the College of Arts and Sciences, are affiliated with the College of Agriculture, the courses offered by these departments, or those of interest to agricultural students, are listed in the bulletin of the College of Agriculture. Courses not so listed are as follows:

Freshman

2 x-y. (English) Composition. 10 hours (5 hours a quarter). *Miss Dumas* and *the Staff.*
First quarter: grammar, punctuation, mechanics, diction, and sentence structure. Second quarter: reading from English and American literature. Themes and parallel reading required throughout the course. Conferences on themes and reading.

2. Farm Forestry. 3 hours. *Mr. Grant* and *Mr. Weddell.*
A general course for agricultural and agricultural education students dealing with forestry from the farmer's standpoint.

25. General Zoology. Two lectures and three double laboratory periods. Prerequisites: Human Biology 1-2 or Botany 21. *Mr. Nuttycombe.*
A survey of the invertebrate animals, their biology, structure, and relation to other animals.

26. General Zoology. Two lectures and three double laboratory periods. Prerequisite: Botany 21. *Mr. Odum.*
A study of the structure, body functions, interrelations, and natural history of the vertebrate animals.

1(5)a-b-c. Military (Air) Science and Tactics. First year basic course in General Military (Air) Science consists of three hours of classwork and two hours of drill and outdoor instruction.

*Exclusive of the required courses Military 1-2 or Air 5-6, and Physical Education 1-2.

1-2. Physical Education. No hours credit. (Includes both freshman and sophomore courses).

Men. Two hours a week for six quarters. Stegeman Hall. *Physical Education Staff.*

The physical fitness and swimming test will be given each quarter. Activities include touch-football, soccer, speedball, volleyball, swimming, badminton, tennis, golf, basketball, tumbling, apparatus, softball, track and field, and others.

Sophomore

6. (English) Oral and Written Composition. *Miss Dumas* and *the Staff.*

Required of students in agriculture, agricultural engineering, and distributive education.

101x. College Algebra. Prerequisite: At least two units of high school mathematics, including one year in algebra. *Mr. Huff* and *the Staff.*

Review of some elementary algebra, quadratic equations, binomial theorem, progressions, complex numbers, etc.

101y. Trigonometry. Prerequisite: same as 101x. *Mr. Huff* and *the Staff.*

Trigonometry through the right triangle, functions of the sum and difference of two angles, the oblique triangle, and the spherical right triangle.

20. Physics Survey. Not open to students who have credit for Physical Science 1. *The Staff.*

An elementary study of the fundamentals of physics with a study of some of the simpler applications of physics. The laboratory period of two hours a week will be devoted to measurements designed to give an introduction in laboratory methods.

1. (Political Science) American Government. *Mr. Pound* and *the Staff.*

An introductory course covering the essential facts of federal, state, and local governments in the United States. A satisfactory grade will exempt a student from the requirement of passing an examination on the Constitution of the United States and the Constitution of Georgia before graduation.

2(6)a-b-c. Military (Air) Science and Tactics. Second year basic course in General Military (Air) Science consists of three hours of classroom work and two hours of drill and outdoor instruction.

1-2. Physical Education. No hour credit. (See course outline under those listed for freshmen).

OPPORTUNITIES FOR SPECIALIZATION

Concentrations offered by the department of the College of Agriculture and related departments in which agricultural students may major, together with brief statements concerning the opportunities available in each field of specialization, are shown under appropriate departmental headings.

The curriculum, given previously, outlines requirements for graduation and suggests departments in which students may specialize.

During the first six quarters each student should give careful consideration to the field of work for which he wishes to prepare. The department in which he intends majoring should be selected not later than the last quarter of his sophomore year. The student should then consult the head of that department about his program of study for his junior and senior years.

In order to acquaint students with the fields in which one may specialize, the opportunities in each, and the courses recommended by the several departments, the following *concentration programs* have been developed by the departments in which agricultural students may major during the junior and senior years. These are suggestive rather than definite requirements. The concentration for each student is an individual program, arranged in consultation with the members of the staff in the department in which the major is taken. In the main, however, the following programs, as presented by the several departments, include the courses which the majority of students will elect with the selection of the field of specialization.

Unless otherwise indicated, all courses are offered in the College of Agriculture buildings on the South Campus of the University.

The University reserves the right to withdraw any course for which the registration is not sufficient and to offer courses not here listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated all courses will meet five times a week and carry five hours' credit.

AGRICULTURAL CHEMISTRY*

(Conner Hall, South Campus; Terrell Hall, North Campus)

Instruction in this division of the Department of Chemistry is designed primarily to fit the needs of agricultural students. By means of lectures, recitations and laboratory work, students are taught the fundamental chemical principles underlying and controlling plant and animal life.

The course for majors in agricultural chemistry is designed to prepare students for professional work in agricultural experiment stations, in fertilizer and feed control laboratories, and similar professional positions in allied industries.

CONCENTRATION IN AGRICULTURAL CHEMISTRY

This concentration is based upon generally accepted undergraduate training in Chemistry for professional purposes and for those who plan to do graduate work.

MAJOR: Chemistry 380, 340a, 340b, and 441 ..... 20 Hours

FIRST MINOR: Mathematics 354 and 355 ..... 10 Hours

SECOND MINOR: Chemistry 451 and 560 or 480 ..... 10 Hours

SCIENCE SELECTIONS: Selected in consultation with Head of the Division ..... 25 Hours

SPECIAL REQUIREMENTS: Physics 28 and 329, Mathematics 101y and 110 ..... 20 Hours

ELECTIVES: A foreign language ..... 10 Hours

Note: Chemistry 23 is required in place of the sophomore elective.

CHEMISTRY

21, 22. GENERAL CHEMISTRY. Four lectures or recitations and one laboratory period per week each quarter. Breakage deposit, $5 for each course. *The Staff* and *Assistants.*

The first course covers the chemistry of the non-metallic elements, including a systematic treatment of chemical principles and their applications. The second course is a continuation of the first course, including a general survey of the metallic elements.

23. QUALITATIVE INORGANIC ANALYSIS. Two lectures or recitations and three laboratory periods. Prerequisite: Chemistry 22. Breakage deposit, $5. *Mr. Smith, Mr. Spell, Mr. Whitehead, Mr. Wilder,* and *Assistants.*

The fundamental theories of qualitative analysis and analyses of common cations and anions by semi-micro methods.

260. AGRICULTURAL CHEMISTRY. Four lectures or recitations and one laboratory period. Prerequisite: Chemistry 22, or with consent of Head of Department. Breakage deposit, $5. Conner Hall. *Mr. Buess, Mr. Coggin, Mr. Philbrook, Mr. Wilder,* and *Assistants.*

A brief terminal introduction to aliphatic organic chemistry with material of special interest to students of Agriculture, Home Economics, and Forestry.

*Fundamental Chemistry courses are a subdivision of the Department of Chemistry of the College of Arts and Sciences. For other offerings, see the bulletin of the College of Arts and Sciences.

261h. Agricultural Chemistry. 3 hours. Two lectures or recitations and one laboratory period. Prerequisite: Chemistry 260. (This course will not satisfy the University of Georgia requirements of organic chemistry for pre-medical students.) Breakage deposit, $5. *Mr. Buess, Mr. Coggin, Mr. Philbrook, Mr. Scott,* or *Mr. Wilder.*

Special topics in the field of organic chemistry, especially designed for students of Pre-Veterinary Medicine.

380. Quantitative Inorganic Analysis. Two lectures and three three-hour laboratory periods. Prerequisite: Chemistry 23. Breakage deposit, $5. *Mr. Spell, Mr. Whitehead,* and *Assistants.*

The fundamental theories of quantitative analysis and typical analyses involving volumetric and gravimetric methods.

451. Physiological Chemistry. Four lectures or recitations and one laboratory period. Prerequisites: Chemistry 260 and a course in botany or biology or zoology or animal husbandry or poultry. Breakage deposit, $5. Conner Hall. *Mr. Coggin* or *Mr. McRorie.*

Fundamental principles of physiological chemistry in the animal body, including the chemistry of foods, digestion, metabolism and excretions.

453. Phytochemistry. Four lectures or recitations and one laboratory period. Prerequisite: Chemistry 261h or 340b, and one course in botany. Breakage deposit, $5. Conner Hall. *Mr. Coggin* or *Mr. McRorie.*

A study of the compounds and chemical principles encountered in plants.

560-561. Agricultural Quantitative Analysis. One lecture or recitation and four laboratory periods per week each quarter. Prerequisites: 560—Chemistry 380; 561—Chemistry 560. Breakage deposit, $5 for each course. Conner Hall. *Mr. Wilder.*

Analysis of dairy products; feeds and feedstuffs; fertilizers, and insecticides; methods of soil and water analysis.

568. Microchemical Analysis of Soils. Five lectures, recitations, or laboratory periods. Prerequisites: Agronomy 10 and Chemistry 260. Breakage deposit, $5. Conner Hall. *Mr. Giddens* or *Mr. Wilder.*

Methods of soil sampling and tests employed for the determination of some water soluble cations and anions most frequently found in soils.

849. Introduction to Research (Biochemical). One lecture and four library or laboratory periods. Prerequisite: Chemistry 451 or 452. Breakage deposit, $5. Conner Hall. *Mr. Coggin* or *Mr. McRorie.*

An introduction to the literature of chemistry, research procedures and directions which can be found only in original articles.

852. Physiological Chemistry. (A continuation of 651). Four lectures or recitations and one laboratory period. Prerequisite: Chemistry 651. Breakage deposit, $5. Conner Hall. *Mr. Coggin* or *Mr. McRorie.*

The metabolism of carbohydrates, lipids, and proteins.

DEPARTMENT OF AGRICULTURAL ECONOMICS

(Conner Hall, South Campus)

Acting Head: Proctor. Staff: Bunce, Frazier, Rowan, Saunders, Woodworth.

The Department of Agricultural Economics offers courses designed to train young men for jobs in agriculture or closely allied vocations. The principal objectives of this type of training are:

(1) To prepare students for positions with the Federal and State departments of agriculture, and in the teaching, research, and agricultural extension divisions of land-grant colleges.

These positions require specialized preparation in agricultural economics, agricultural credit, farm finance, land economics, agricultural adjustments, marketing farm products, farm management, and cooperation in agriculture.

(2) To prepare students for entering private business in positions that require fundamental training in farm management, marketing, land use, farm credit, and other similar services connected with agriculture. The expanded demand for county workers under the "Farm and Home Development

Program" is especially requesting training in farm management and farm finance.

(3) To prepare students for graduate work in agricultural economics and marketing farm products.

There continues to be a strong demand for agricultural economists with post-graduate training. An expanding program of research in agricultural economics in the land-grant colleges and in the United States Department of Agriculture has opened more positions for such agricultural economists than could be filled.

A student exploring the subject of agricultural economics is advised to study the suggested concentrations and to read the descriptions of courses that may be included in his program. He should then consult the Head of the Department of Agricultural Economics.

Each student must present a program of study to the professor designated by the Head of the Department of Agricultural Economics. This professor will be the student's adviser. A program of study in agricultural economics must be prepared and submitted during the last quarter of a student's sophomore year unless he is a transfer student, when it must be submitted during his first quarter's attendance.

CONCENTRATION IN AGRICULTURAL ECONOMICS

Junior and Senior Years

This concentration is suggested for those who desire a comprehensive knowledge and understanding of economics applied to agriculture and those who later on may formulate a more specialized program of study.

Major: Agricultural Economics 301, 304, 351, and 364 ..... 20 Hours

Science Selections: (Same for all concentrations):

Bacteriology 350, Geology 25, Mathematics 356 or Economics 312, Plant Pathology 353, 358, Veterinary Hygiene 200, Entomology 374, Zoology 390 ..... 25 Hours

First Minor: Economics 326 or 334 and Business Administration 370 ..... 10 Hours

Second Minor: Must be in one department of the College of Agriculture ..... 10 Hours

Special Requirements: Agricultural Economics 458 or 467 ..... 5 Hours

Electives: Selected with the Head of the Department ..... 25 Hours

CONCENTRATION IN AGRICULTURAL MARKETING

Junior and Senior Years

This concentration is recommended for those who intend to engage in marketing farm products or obtain professional positions in agricultural marketing.

Major: Agricultural Economics 304, 400, 403, 404 ..... 20 Hours

Science Selections: See Agricultural Economics Concentration ..... 25 Hours

First Minor: May be in any one department in the University ..... 10 Hours
(Recommended: Economics 326 and Business Administration 370)

Second Minor: Must be in one department of College of Agriculture ..... 10 Hours

Special Requirements: Agricultural Economics 467 or Economics 436 ..... 5 Hours

Electives: Selected with the Head of the Department ..... 25 Hours

CONCENTRATION IN FARM FINANCE

Junior and Senior Years

This concentration is designed to train men for jobs with the federal land banks, production credit associations, the Farmers Home Administration, farm loan department of commercial banks, and the finance departments of cooperatives and other corporations.

Major: Agricultural Economics 301, 304, 351, 469 ..... 20 Hours
Science Selections: See Agricultural Economics Concentration..... 25 Hours
First Minor: May be in any department of the University ..... 10 Hours
(Recommended: Economics 326 and 334 or 436)
Second Minor: Must be in one department of the College of Agriculture ..... 10 Hours
Special Requirement: Agricultural Economics 467 ..... 5 Hours
Electives: Selected with the Head of the Department ..... 25 Hours

CONCENTRATION IN FARM MANAGEMENT

Junior and Senior Years

This concentration is recommended for students who expect to become county agents, teachers of agriculture, farm operators, farm managers, land appraisers or do other work involving plans for organization and management of farms.

Major: Agricultural Economics 301, 351, 364, 402 ..... 20 Hours
Science Selections: See Agricultural Economics Concentration..... 25 Hours
First Minor: May be in any department of the University ..... 10 Hours
Second Minor: Agronomy 320 or 321 and 356 or 458 ..... 10 Hours
Special Requirement: Animal Husbandry 371 ..... 5 Hours
Electives: Selected with the Head of the Department ..... 25 Hours

AGRICULTURAL ECONOMICS

4. Farm Enterprises. 3 hours. *Mr. Frazier* and *the Staff.*
A study of various farm enterprises with emphasis upon methods most commonly used in calculating receipts, cost, and income on a farm. To familiarize students with the cost and income-producing characteristics of various farm enterprises including economic planning.

10. Rural Economics. 3 hours. *The Staff.*
Introduction to economics of farming, student orientation to entire field of agricultural economics, application of economics to farm problems.

301. Farm Organization and Management. Three lectures and two laboratory periods. Prerequisites: Agricultural Economics 4 and 10, Agronomy 1, Animal Husbandry 1, and Mathematics 101x. *Mr. Frazier* or *Mr. Proctor.*
A scientific approach to the study of individual farm programs for the purpose of determining methods to be used for increasing farm income.

304. Marketing Farm Products. Prerequisites: Agricultural Economics 10, Poultry 60 and Horticulture 1. *Mr. Frazier* or *Mr. Rowan.*
A general course in marketing farm products describing and analyzing marketing functions and market agencies; illustrated by visits to marketing concerns. General purpose to enable students to have a comprehensive understanding of the principles of agricultural marketing.

351. Agricultural Credit. Prerequisites: Agricultural Economics 10, Mathematics 101x and Political Science 1. *The Staff.*
Principles of finance applied to farm credit organizations. Practices and principles of financing individual farms.

364. Land Economics. Prerequisites: Agricultural Economics 10, Agronomy 10 and Political Science 1. *Mr. Proctor.*
An appraisal of the agricultural use of land in the United States with special attention to Georgia land. Designed to meet current needs for training in application of economics to use of land by farmers under changing political and social conditions.

400. Cooperation in Agriculture. Prerequisite: Agricultural Economics 304, 351, or equivalent. *Mr. Proctor* or *Mr. Rowan.*

A study of cooperative marketing associations, their organization, and practices. A discussion of philosophy and economics of cooperation in agriculture.

401. Farmer Movements. Prerequisite: Agricultural Economics 10, Political Science 1, and two senior division courses in Economics or Agricultural Economics. *Mr. Proctor.*

History of agricultural organizations; study of selected rural agencies and organizations; and a study of the relationship between organizations of rural people and their economic well being.

402. Advanced Farm Organization and Management. Five lectures (with a few special field trips per quarter). Prerequisites: Agricultural Economics 301 and 364 or equivalent, Agronomy 321 or equivalent and Animal Husbandry 373. *Mr. Proctor.*

Analysis of economic facts of individual farm plans and formulation of economic models which postulate optimum allocation of land, labor and capital as guides for increased revenue.

403. Marketing Livestock and Livestock Products. Prerequisites: Agricultural Economics 10, 304, 351 or equivalent, Animal Husbandry 371 and Poultry 60. *Mr. Rowan.*

An economic study of livestock marketing with emphasis on channels of trade and methods of distribution, prices, standardization, transportation, regulation and supervision and the way in which marketing functions and agencies implement the marketing of livestock.

404. Marketing Field Crops and Horticultural Products. Prerequisites: Agricultural Economics 10, 304, 351, and Agronomy 320 or equivalent. *Mr. Rowan.*

An economic study of marketing of field and horticultural crops from the commodity approach.

458. Principles of Agricultural Economics. Prerequisites: Agricultural Economics 10, Mathematics 101x, Economics 312 or equivalent and senior standing. *Mr. Proctor.*

Application of economic theories and principles to agricultural activities. Causes and effects of agricultural surpluses, factors of production, private and governmental control policies, and comparative agricultural enterprises.

467. Agricultural Prices. Prerequisites: Agricultural Economics 10 and two senior division courses in Economics or Agricultural Economics. *Mr. Rowan.*

An analysis of the principles of cause and effect of farm price fluctuations, the relative instability of farm prices in relation to industrial prices, the development of theoretical concepts as tools of analysis in dealing with farm price problems, including use of index numbers and graphic multiple correlation.

469. Farm Finance. Prerequisites: Agricultural Economics 10 and two senior division courses in Agricultural Economics, including 351 or Economics 326. *Mr. Rowan.*

A theoretical and institutional analysis of the role of money, debts and credit in our agricultural economy, principles of expansion and contraction, elasticity, monetization of debt, federal and private debt management and monetary policy.

470. Current Agricultural Problem Analysis. 3 hours. Prerequisites: Agricultural Economics 10, 301 and 304 or equivalent, and Economics 312 or 334. *Mr. Proctor.*

Investigation of economic theories applicable to analyzing agricultural problems; economic factors causing problems and methods of scientific analysis of problems so as to better understand scientific and social laws of economic behavior.

GRADUATE COURSES

808. Agricultural Economics Theories and Programs. Prerequisites: Three senior division courses including Agricultural Economics 458, Economics 334, 406 or equivalent. *Mr. Proctor.*

Review and analysis of economic theories and principles. Fundamentals of analyzing specific cause and effect problems in agriculture. (Given only upon sufficient demand and approval of professor.)

809. Advanced Agricultural Price Analysis. Prerequisites: Agricultural Economics 467, Economics 312 or equivalent and consent of instructor. *Mr. Rowan.*

The utilization of theoretical pricing concepts, the statistical method and the concept of countervailing power in the analysis of agricultural and related prices.

816. Farm Organization Analysis. 3 hours. One lecture and two laboratory periods. Prerequisites: Agricultural Economics 402 and 364 or equivalent, plus advanced courses in soils, crops and livestock production. *Mr. Proctor.*

Assemble, appraise, and analyze economic data of individual farms; determine the influence of combinations of enterprises; and analyze the individual input factors of producing crops and livestock on such farms. (Given only upon sufficient demand and approval of professor).

817. Research in Farm Organization Substitution. 3 hours. Three laboratory periods. Prerequisites: Agricultural Economics 402 and 470 or equivalent, plus advanced courses in soils, crops, livestock production, and statistics. *Mr. Proctor.*

Substitution analysis and budget research in farm organization and management. Make deductions from farm economic data of individual farms and farm plans. (Given only upon sufficient demand and approval of professor).

821. Public Problems of Agriculture. Prerequisites: Agricultural Economics 301, 470 and 458 or equivalent, and Economics 312 and 406 or equivalent. *Mr. Proctor* or *Mr. Rowan.*

A group discussion and analysis of agricultural problems that involve institutional and governmental activities and program policies. (Given only upon sufficient demand and approval of professor.)

830-831. Agricultural Economics Research. Five hours each. Prerequisite: Thirty or more credit hours in agricultural economics or related fields at the senior or graduate level. *Mr. Proctor* or *Mr. Rowan.*

Individual research in problems of agricultural economics conducted by students under the direction and guidance of the staff of the Department of Agricultural Economics.

DEPARTMENT OF AGRICULTURAL EDUCATION

(Peabody Hall, North Campus)

Head: Tolbert. Staff: Brown, Duncan, O'Kelley.

The courses offered in this department prepare men to be teachers of vocational agriculture. Major students in this department have a broad training in agriculture, and, upon the satisfactory completion of the training program outlined, are qualified for certification by the State Department of Education as teachers of agriculture. The program for training teachers of agriculture is carried on in cooperation with the College of Education through its Division of Vocational Education.

During one quarter of the senior year, each student does apprentice teaching in a selected off-campus rural school for which fifteen quarter hours of credit are given. The apprenticeship method of training teachers of agriculture has been used since 1928. This system of training enables the apprentice to deal first-hand with the many problems of a teacher of agriculture in a normal situation under the careful supervision of the regular teacher of agriculture and a member of the staff at the University.

CONCENTRATION IN AGRICULTURAL EDUCATION

Major:
Education 335.1, 336.1, 346.1, 347.1, 348.1 ..... 25 Hours

Science Selections: Education 304 and four of the following courses: Bacteriology 350, Mathematics 356, Plant Pathology 353, Plant Pathology 358, Sociology 431 or 433, Veterinary Hygiene 200, Entomology 374 ..... 25 Hours

First Minor: Selected from any department in the University subject to approval of adviser ..... 10 Hours

SECOND MINOR: Agricultural Engineering 203, Food Technology 363 or 409 ..... 10 Hours

SPECIAL REQUIREMENTS: Agricultural Economics 301, Animal Husbandry 373, Education 303 and 349 ..... 25 Hours

COURSES IN THE COLLEGE OF EDUCATION WITH MAJOR IN AGRICULTURAL EDUCATION

303. INDIVIDUAL ANALYSIS AND PROFESSIONAL PLANNING. *Selected members of the staff.*

Through a full program of testing and counseling, students will make a systematic study of their needs in relation to personal and professional development. Study habits will be analyzed and guidance will be given in improving study habits and in budgeting of time. Opportunities will be provided for students to study the duties and responsibilities of teachers working in the total school program. Students will be expected to choose a teaching field and to plan a professional program in terms of this choice.

304. EDUCATIONAL PSYCHOLOGY. *Selected members of the staff.*

Special emphasis in this course is placed upon developing competencies on the part of prospective elementary and high school teachers in understanding and applying the psychological principles involved in the growth and development of children and youth. Selected schools will be used as a laboratory for students in this course.

335.1. CURRICULUM PLANNING. Prerequisites: Education 303 and consent of instructor. *Mr. Brown, Mr. O'Kelley,* and *Mr. Tolbert.*

The purpose of this course is to develop the ability of students to engage in curricular activities in vocational agriculture in the public schools. Emphasis is placed on the procedures for locating, organizing, and sumarizing data concerning social and agricultural problems to serve as a guide in formulating curricular activities with high school and adult groups based upon their needs and interests. Directed observation will be carried on in selected schools.

336.1. TEACHING PROCEDURES. Prerequisites: Education 303, 304, 335.1, and consent of instructor. *Mr. Brown, Mr. O'Kelley,* and *Mr. Tolbert.*

The purpose of this course is to evaluate teaching procedures used by teachers of vocational agriculture in the public schools. Attention is given to techniques used in teaching vocational agriculture to high school, young farmer, and adult groups. Selected schools will be used whenever practicable for observation of high school, young farmer, and adult groups.

346.1, 347.1, 348.1. APPRENTICE TEACHING. 15 hours. Prerequisites: Education 303, 304, 335.1, and 336.1. *Mr. Brown, Mr O'Kelley,* and *Mr. Tolbert.*

Prospective teachers of vocational agriculture are placed as apprentices in carefully selected schools of the state for an entire quarter. During this period they are carefully supervised in dealing with the problems of teaching vocational agriculture.

349. SEMINAR IN EDUCATION. Prerequisite: Apprentice Teaching. *Mr. O'Kelley* and *Mr. Tolbert.*

This is a seminar dealing with problems emerging from experiences in apprentice teaching. Emphasis will be placed upon the planning of a total school program, and the place and responsibility of the teacher in the school. Special attention will be given to the work of the public schools in relation to the needs and interests of the community, the nation, and the world.

763. PROBLEMS IN VOCATIONAL EDUCATION. Prerequisites: four courses in education and consent of the instructor. *Mr. O'Kelley* and *Mr. Tolbert.*

Designed to meet the needs of experienced teachers of agriculture who want additional training in specific problems of teaching. Planned so that students may work at their special interests, individually or in groups.

771. TEACHING PROCEDURES IN VOCATIONAL EDUCATION. Prerequisites: four courses in education and consent of the instructor. *Mr. O'Kelley* and *Mr. Tolbert.*

This course is designed to meet the needs of those teachers of vocational agriculture who desire guidance in improving teaching procedures. Consideration is given to the development of curricula based on the needs and interests of students, the organization of the curricula into teaching units. the planning of units for instruction, teaching, and evaluation.

772. EVALUATION IN VOCATIONAL EDUCATION. Prerequisites: four courses in education and consent of the instructor. *Mr. O'Kelley* and *Mr. Tolbert.*

This course has the following purposes: (1) to guide teachers, supervisors, and administrators to develop the ability to evaluate departments and programs of vocational education in schools and communities, (2) to guide teachers in the development of methods and techniques for evaluating their own instruction, and (3) to guide teachers in planning techniques for evaluating student development.

773. Supervision of Vocational Teaching. Prerequisites: four courses in education and consent of the instructor. *Mr. O'Kelley* and *Mr. Tolbert.*

In this course major emphasis is placed upon the following: (1) developing a point of view or philosophy of teacher education, (2) analyzing the present teacher training program in vocational education in Georgia to discover problem situations that may be used as a basis for teacher education programs, (3) determining the relative emphasis that each teacher-training agency should place upon the solution of the several problems in the teacher-education program, and (4) projecting plans for an apprentice-training program.

871. Adult Education. Prerequisites: four courses in education and consent of the instructor. *Mr. O'Kelley* and *Mr. Tolbert.*

The primary purposes of this course are: (1) to develop a philosophy of adult education, (2) to develop techniques for discovering adult problems, and (3) to discover and apply appropriate methods of organizing and teaching adult groups. The course is designed to meet the needs of experienced teachers, rural school supervisors and administrators, and other adult leaders.

921. Laboratory in Applied Education. Prerequisites: four courses in education and consent of major professor. *Staff.*

This course is designed to provide opportunities for advanced students to undertake functional studies of topics or problems in education significantly related to their professional tasks. For most students, it will involve supervised field work in the attempt to solve one or more practical school problems related to their normal duties.

DEPARTMENT OF AGRICULTURAL EXTENSION TRAINING

(Conner Hall, South Campus)

Head: Bryant. Staff: Agricultural Extension members.

The concentration offered by this Department is designed for men and women who wish to prepare for Agricultural Extension Service careers. It is open to men pursuing the B.S.A. curriculum in the College of Agriculture, and to women in the School of Home Economics.

Students who choose this concentration, both men and women, must complete all freshman and sophomore courses in their respective degree-course programs. Upon completion of these requirements, they are to prepare, in keeping with the requirements of their respective concentrations, a program for their junior and senior years, which must be approved by their major professor.

The concentration which follows this introductory statement sets forth the requirements for students in the College of Agriculture who wish to meet the qualifications for becoming a county agent. Only those students who are farm-reared and have had adequate, practical farm experience will be permitted to pursue this training program.

Two or more of the courses included in the major, one of which shall be Agricultural Extension 313, must, normally, be taken during the junior year. This will make it possible to provide for one summer's field experience, under supervision, to be completed prior to registering for Agricultural Extension 314, which is a course that may be taken only during the senior year. Field experience for a period of two or more months, under an approved county agent or some other Extension Service worker is desirable in this concentration. No college credit will be given for field experience. However, those taking this concentration, and who are selected for field training, will be paid a nominal salary during the period of training.

AGRICULTURAL EXTENSION TRAINING

313. Agricultural Extension Organization and Procedures. Prerequisites: Two or more senior division courses. *Mr. Bryant* and *the Staff.*

Philosophy, procedures, and practices of Extension Service work in agriculture and home economics; organization, administration, and financing; relationships with cooperating and related organizations and agencies; qualifications, duties, and responsibilities of Extension Service workers.

314. Agricultural Extension Service Programs. Prerequisite: 313. *Mr. Bryant* and *the Staff.*

Scope and nature of Extension Service programs at national, state, and county levels; emphasis upon techniques, policies, and procedures for developing Extension Service programs as bases for work of county and home demonstration agents; activities involved in carrying out programs; evaluation of efforts and results obtained.

CONCENTRATION IN AGRICULTURAL EXTENSION TRAINING

Major: Agricultural Extension 313, Sociology 431, Education 304, Agricultural Extension 314 ..... 20 Hours

Science Selections: Bacteriology 350, Botany 380, Economics 312, Plant Pathology 353, Entomology 374 ..... 25 Hours

First Minor: Agronomy 320 or 321, Agronomy 356 ..... 10 Hours

Second Minor: Agricultural Economics 301, Animal Husbandry 373 10 Hours

Special Requirement: Journalism 368 ..... 5 Hours

Electives: To be selected with the objective of providing a well-rounded program for the individual. Must be approved by the major professor. May be chosen from the offerings of any Department in the University ..... 25 Hours

DEPARTMENT OF AGRONOMY

(Conner Hall, South Campus)

Head: Rogers. Staff: Adams, Beaty, Brown, Giddens, Morris, Perkins, Stelly.

The courses offered in the Agronomy Department are designed for students interested in general farm crop production, soil management practices, the various fields of specialization in agronomic work, and electives for majors in other fields of specialization.

Students majoring in this department are prepared for general farming, for farm managers, and for employment in various fields of agriculture, such as the U. S. Department of Agriculture, experiment station workers, college teachers, extension work in crops and soils, seed industry, cotton specialization, soil conservation, soil survey, and the fertilizer industry. Provision is made for those who continue their training as graduate students in either crops or soils.

Students majoring in the Department of Agronomy should contact the Head of the Department and be assigned to an adviser. The student will plan his program of study in consultation with his adviser. It is usually possible for students to obtain work, on an hourly basis, with the research staff in the department.

Four concentrations are offered with electives in related fields.

I. CONCENTRATION IN GENERAL AGRONOMY

This concentration is designed for students who plan to farm or to enter the fields of farm management, farm operation, technical planning, or agronomic work in soil-conserving programs. This concentration is not designed for those who plan to do graduate work.

Major: Agronomy 320, 321, 356, 425 ..... 20 Hours

Science Selections: Bacteriology 350, Botany 380, Plant Pathology 353, 358, Entomology 374 ..... 25 Hours

First Minor: Any department in the University (Must be approved by the student's adviser) ..... 10 Hours

Second Minor: Agronomy 324, 332 ..... 10 Hours

SPECIAL REQUIREMENTS: Agronomy 458, Botany 375, Plant Pathology 356, 401 ..... 20 Hours

GENERAL ELECTIVES: ..... 10 Hours

II. CONCENTRATION IN AGRONOMY AND PLANT SCIENCE

This concentration is offered for those who wish to enter the fields of crop production, agronomic research, teaching, extension work in the fields of farm crops, and graduate work in these fields.

MAJOR: Ten hours from Agronomy 320, 321, or 332, 356, 459 ..... 10 Hours

SCIENCE SELECTIONS: Bacteriology 350, Mathematics 101y, Plant Pathology 353, 358, Entomology 374 ..... 25 Hours

FIRST MINOR: Botany 305, 380 ..... 10 Hours

SECOND MINOR: Plant Pathology 356, 401 ..... 10 Hours

SPECIAL REQUIREMENTS: Agronomy 458, Botany 375, Chemistry 23 ..... 10 Hours

GENERAL ELECTIVES: ..... 15 Hours

III. CONCENTRATION IN SOIL SCIENCE

This concentration is designed primarily for students who are planning to be teachers, research workers, soil technicians, soil surveyors, or other investigational workers in soil chemistry, soil physics, and soil fertility, as well as for those who expect to do graduate work in these fields.

MAJOR: Agronomy 353, 356, 458, 459 ..... 20 Hours

SCIENCE SELECTIONS: Bacteriology 350, Botany 380, Chemistry 23, Geology 25, Plant Pathology 358 ..... 25 Hours

FIRST MINOR: Agronomy 461, Chemistry 380 ..... 10 Hours

SECOND MINOR: Agronomy 320 and 321, or 332 ..... 10 Hours

SPECIAL REQUIREMENTS: Agronomy 460, Mathematics 101y, Physics 28 ..... 15 Hours

GENERAL ELECTIVES: ..... 15 Hours

IV. CONCENTRATION IN SOIL CONSERVATION

This concentration is designed especially for students interested in soil conservation, soil improvement, farm program planning, and soil utilization, and is not designed for those who plan to do graduate work. This concentration is given in cooperation with the Department of Agricultural Engineering.

MAJOR: Agronomy 321, 353, 356, 458 ..... 20 Hours

SCIENCE SELECTIONS: Botany 375, 380, Mathematics 101y, Plant Pathology 353, Entomology 374 ..... 25 Hours

FIRST MINOR: Any department in the University. Must be approved by student's adviser ..... 10 Hours

SECOND MINOR: Agricultural Engineering 11, 20, and 224 ..... 11 Hours

SPECIAL REQUIREMENTS: Agricultural Economics 301, Agronomy 320, 332, 460 ..... 20 Hours

GENERAL ELECTIVES: ..... 9 Hours

AGRONOMY

1. Field Crop Production. 3 hours. *Mr. Rogers.*
A general survey of the principles involved in the economical production of the more commonly grown field and forage crops, including botanical characteristics, soil and climatic adaptations, fertilizer and cultural requirements, cropping systems, and management. Laboratory exercises will include plant and seed identification in the field and laboratory.

10. Principles of Soils. Prerequisite: Chemistry 21-22. *Mr. Morris, Mr. Perkins,* and *Mr. Stelly.*
Soil formation; physical, chemical and biological properties of soils; commercial fertilizers, lime and organic matter; and soil management practices, including forest soils.

200. Commercial Cotton Classing. (Good eyesight and color perception necessary). *The Staff.*
Cotton grades and staples according to Universal Standards for American Upland Cotton. Practices consist of grading and stapling several thousand samples of cotton.

320. Southern Field Crops. Prerequisites: Agronomy 1 and 10. *The Staff.*
Production, harvesting and utilization of the major cash crops of Georgia are discussed. Laboratory exercises deal with botanical and morphological characteristics of the crops and the fundamentals of grading and classing. Field trips to the College Experiment Station are made for the purpose of observing current research.

321. Forage and Pasture Crops. Prerequisites: Agronomy 1 and 10. *Mr. Brown* and *Mr. Rogers.*
Study of the adaptation, requirements, and culture of the important grasses and legumes and their use as pasture, hay, silage, and soilage.

324. Weeds and Seeds. Prerequisites: Agronomy 1 and 10. *Mr. Brown.*
Beneficial and harmful effects of weeds. Principles of weed control, including the use of chemicals and cultural practices. Seed certification, analysis, and germination. Identification of weeds in seed and plant form.

332. Cereal Production. Prerequisites: Agronomy 1 and 10. *Mr. Brown.*
Distribution, classification, production and uses of corn, small grains and grain sorghum. Laboratory exercises include identification of varieties and grain grading by U. S. Standards.

353. Soil Formation and Classification. Prerequisite: Agronomy 10. *Mr. Perkins.*
Soil formation, classification, and soil survey, including preparation of soil survey maps and reports. Several full-day field trips will be required at the student's expense.

356. Fertilizers. Prerequisite: Agronomy 10. *Mr. Morris.*
Sources, manufacture, and uses of commercial fertilizers, and the principles involved in the application of fertilizers to crops. Plant nutrient deficiency symptoms and means of correcting these deficiencies.

423. Principles of Experimental Methods. Prerequisites: Agronomy 321 and 356, or equivalent. *Mr. Morris.*
Principles and practices in plant and animal research with special reference to the design and mechanical procedure with experimental plots. The applications of statistical methods to laboratory and field results are emphasized.

425. Pasture Development and Management. Prerequisites: Agronomy 321 and 356, or equivalent. *The Staff.*
Fundamental principles of growth and production of pasture plants and mixtures; types of pastures and pasture vegetation; principles of establishment and management for economical production and soil conservation.

427 a-b-c. Agronomy Seminar. 1 hour each. *The Staff.*
Topics relating to crops and soils to be discussed, including literature review and results pertaining to local experimental work. Required of senior and graduate students. Students and faculty to participate.

455. Land Use Problems. Prerequisites: Agronomy 321 and 356, or equivalent. *Mr. Giddens.*
Principles of soil and land use classification. Soil management practices pertaining to efficient land use under Georgia conditions.

459. Soil Fertility. Prerequisites: Agronomy 356 and 455, or equivalent. *Mr. Stelly.*
Soil conditions affecting availability of plant nutrients, methods of determining soil fertility and deficiency of plant nutrients in soils, and interpretation of chemical and biological measurements as related to fertility maintenance and good soil management.

460. Soil Physics. Prerequisites: Agronomy 353 and Chemistry 380, or equivalent. *Mr. Stelly.*

Physical properties, moisture relations, and methods of physical analysis of soils.

461. Soil Microbiology. Prerequisites: Agronomy 458 and Bacteriology 350 or equivalent. *Mr. Giddens.*

Study of characteristics of non-pathogenic microorganisms inhabiting the soil. Activities of soil microorganisms such as nitrogen fixation, carbon cycle, and other factors affecting soil fertility are especially stressed.

GRADUATE COURSES

803. Factors Affecting Growth and Reproduction in Crops. Prerequisites: Agronomy 321, 356, Botany 380 or equivalents. *The Staff.*

Analysis of factors affecting growth, differentiation, and reproduction of plants; the influence on competition, succession and plant communities; practical problems are discussed in light of current research.

825-826. Special Problems in Agronomy. Five hours each course. Prerequisites: At least one course in Agronomy with catalogue number 800 or above. *The Staff.*

The planning and completion of short-time agronomic problems, other than thesis investigations, conducted in the library, field, greenhouse, or laboratory.

827. Experimental Design. Prerequisite: Agronomy 423 or equivalent. *Mr. Morris.*

A continuation of Agronomy 423, including the design and analysis of complex experiments with a large number of treatments. This course is designed to meet the needs of students in either plant or animal sciences.

852. Advanced Soil Fertility. Prerequisites: Agronomy 459 and Chemistry 380, or equivalent. *Mr. Morris.*

Physical, chemical, and bacteriological aspects of soil fertility as related to plant growth.

853. Methodology in Soil Chemistry. Prerequisites: Agronomy 459 and Chemistry 380, or equivalent. *Mr. Stelly.*

Special treatment of methods used in soil and plant analyses. Emphasis is placed on chemical laboratory methods and equipment used in soil investigations; however, physical and biological methods are also presented. Interpretation of experimental data is stressed.

854. Advanced Soil Classification. Prerequisites: Agronomy 353 and Chemistry 380, or equivalent. *Mr. Stelly.*

Historical geology, weathering of rocks and minerals, factors and processes of soil formation, and various concepts of soil classification. The formation, description, and classification of the soils of the United States and of Georgia are stressed.

855. Special Topics in Pedology. Prerequisite: Agronomy 854. *Mr. Stelly.*

Discussion of assigned readings and reports on special problems in pedology. Actual field training in soil surveying under the supervision of experienced soil surveyors will be arranged whenever possible.

930. Thesis Research in Agronomy. 5 to 10 hours.

Credits in this course must be in addition to the 40 hours required for the M.S. degree. Prerequisite requirements depend upon research problem and consent of major professor. Available by arrangement any quarter to any graduate student majoring in agronomy who is a candidate for the Master of Science degree.

DEPARTMENT OF ANIMAL HUSBANDRY

(Hardman Hall, South Campus)

Division Chairman and Head: Cullison. Staff: Carmon, O'Mary, Sewell, Thomason, Warren.

The courses offered by the Department of Animal Husbandry are designed to give students basic training in the production of beef cattle, sheep, swine, horses and mules. While most of the courses offered deal with the more practical phases of selection, breeding, feeding, and/or management, several courses of a technical nature are offered for those students who desire to enter some specialized type of work or who plan to follow a program of graduate study.

The courses of the Department are especially planned for students who expect to become livestock farmers, farm managers, herdsmen, animal husbandry specialists, county agents, vocational agricultural teachers, college teachers, or experiment station workers. They are also suitable for students who intend to enter positions with breed associations, feed manufacturers, packing houses, livestock commission firms, livestock equipment and supply companies, or livestock journals.

CONCENTRATION IN ANIMAL HUSBANDRY

MAJOR: Animal Husbandry 360, 361, 372, 373 ..... 20 Hours

SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 358, Entomology 374, Zoology 390, and any one of the following: Chemistry 23, Geology 25, Mathematics 356, Plant Pathology 353 ..... 25 Hours

FIRST MINOR: Agronomy 321 and 356 ..... 10 Hours

SECOND MINOR: May be selected by student in any department of the University, subject to the approval of the Head of the Department ..... 10 Hours

SPECIAL REQUIREMENTS: Animal Husbandry 350, Food Technology 365 or 368, and Veterinary Hygiene 200 ..... 13 Hours

GENERAL ELECTIVES: Subject to the approval of the Head of the Department ..... 17 Hours

ANIMAL HUSBANDRY

1. INTRODUCTORY ANIMAL HUSBANDRY. 3 hours. *Mr. O'Mary.*
A study of basic facts, principles, and terminology pertaining to beef cattle, sheep, swine, horses and mules.

350. TYPES, BREEDS, CLASSES, AND GRADES OF LIVESTOCK. 3 hours. Prerequisite: Animal Husbandry 1. *Mr. Carmon.*
A study of the characteristics of the different types, breeds, classes, and grades of livestock.

356.1, 356.2, 356.3, 356.4. 1 hour each. FITTING AND SHOWING BEEF CATTLE, HORSES, SHEEP, AND SWINE, (respectively). Prerequisite: Animal Husbandry 1. *Staff.*
A laboratory course designed to train students in the finer points of fitting and showing the various classes of beef cattle, horses, sheep, and swine.

360. BEEF CATTLE PRODUCTION. Prerequisite: Animal Husbandry 373. *Mr. Thomason.*
A study of the breeding, feeding, and management of beef cattle.

361. SWINE PRODUCTION. Prerequisite: Animal Husbandry 373. *Mr. Sewell.*
A study of the breeding, feeding, and management of swine.

363. HORSE AND MULE PRODUCTION. 3 hours. Prerequisite: Animal Husbandry 373. *Mr. Warren.* (Offered in alternate years).
A study of the breeding, feeding and management of horses and mules.

364. SHEEP PRODUCTION. 3 hours. Prerequisite: Animal Husbandry 373. *Mr. Warren.*
A study of the breeding, feeding, and management of sheep.

366. LIVESTOCK JUDGING AND SELECTION. 3 hours. Prerequisite: Animal Husbandry 350 or permission of the instructor. *Mr. O'Mary.*
A course which deals with the selection of livestock for the breeding herd and for slaughter. From the students in this course will be chosen the team to represent the University in the Annual Spring Intercollegiate Livestock Judging Contests.

371. LIVESTOCK PRODUCTION. Prerequisite: Animal Husbandry 373. *Mr. Thomason.*
A study of the fundamental principles and practices involved in the profitable production of various classes of farm animals. (*Not for Animal Husbandry majors. Students taking this course will not receive credit in Animal Husbandry* 360, 361, 363, *and* 364.)

372. Breeding and Improvement of Farm Animals. Prerequisites: Animal Husbandry 1 and Plant Pathology 358. *Mr. O'Mary* and *Mr. Warren.*
A study of the basic principles of genetics and reproduction as related to the breeding and improvement of farm animals.

373. Feeds and Feeding. Prerequisites: Animal Husbandry 1 and Chemistry 260. *The Staff.*
A study of the basic principles of animal nutrition as related to the feeding of all classes of farm livestock.

376. Advanced Livestock Judging and Selection. 3 hours. Prerequisite: Animal Husbandry 366 or permission of instructor. *Mr. Carmon.*
A continuation of Animal Husbandry 366. From the students in this course will be chosen the team to represent the University in the Annual Fall Intercollegiate Livestock Judging Contests.

402. Advanced Animal Nutrition. Prerequisites: Animal Husbandry 373, 360 or 361, Zoology 390 or equivalent. *Mr. Sewell.*
A study of the chemical composition and the physical and chemical properties of feeds and feed nutrients; the digestion, absorption and metabolism of the nutrients; factors affecting nutrient utilization; the functions of the different nutrients; the nutrient requirements of farm animals; the effects of nutrient deficiencies and how to correct and prevent them.

403. Advanced Animal Breeding. Prerequisites: Animal Husbandry 372, Zoology 390 or equivalent. *Mr. Warren.*
A study of the physiology of reproduction, fertility. heredity, artificial insemination, and other advanced aspects of animal breeding.

GRADUATE COURSES

801-802. Special Problems in Animal Husbandry. 5 hours each. Prerequisites: Animal Husbandry 402 or 403 and permission of instructor. *Mr. Carmon, Mr. Cullison, Mr. O'Mary, Mr. Sewell,* and *Mr. Warren.*
Library and laboratory problems dealing with different phases of livestock production.

805. Experimental Methods in Animal Nutrition. Prerequisite: Animal Husbandry 402 or equivalent. *Mr. Sewell.*
A study of the experimental methods used in animal nutrition research; the nature and significance of chemical determinations, feeding trials, digestion trials, and metabolism studies.

810a-b-c. Seminar in Animal Husbandry. 1 hour each. Prerequisites: Animal Husbandry 360, 361 and 372 or equivalent. *Mr. Cullison.*
Weekly meetings devoted to discussions of current problems and research in the field of Animal Husbandry.

827. Statistical Methods in Animal Science. Prerequisites: Agronomy 423-623 or equivalent. *Mr. Carmon.*
A study of special experimental designs and statistical procedures particularly applicable to animal research.

828. Population Genetics. Prerequisites: Animal Husbandry 827 or equivalent. *Mr. Carmon.*
Statistical analysis of the genetic structure of animal populations and a study of the genetic forces responsible for the changes in these populations.

930. Thesis. 5 to 20 hours. Prerequisites: Two or more graduate courses in Animal Husbandry. Open only to Animal Husbandry majors. *The Staff.*
The carrying out of laboratory and library research and the development of a thesis bearing on the subject under investigation.

DEPARTMENT OF BOTANY

(Baldwin Hall, North Campus)

Head: Westfall. Staff: Beck, Carlton, Duncan, Jacobs, Wilson.

A major in Botany is often highly desirable for students in the College of Agriculture who are interested in any of the plant sciences. A thorough knowledge of plant structures, processes, environmental requirements, and the principles of identification and classification to be derived from such a course of study is basic to Agronomy, Horticulture, Plant Pathology, and

Plant Breeding, and is generally essential as a foundation for effective graduate work in these fields.

Students who specialize in Botany have the academic requirements for several positions with the United States Department of Agriculture and other Federal agencies. When taken adjunctively with another major in the plant sciences, a major in Botany should prove most valuable as preparation for numerous State and Federal agencies.

MAJOR: Botany 305, 323, 375, 380 ..... 20 Hours

SCIENCE SELECTIONS FROM: Bacteriology 350, Entomology 374, Chemistry 260, Plant Pathology 353, Plant Pathology 358 or Biology 370 ..... 25 Hours

FIRST MINOR: To be approved by Head of Department ..... 10 Hours

SECOND MINOR: Must be in the College of Agriculture ..... 10 Hours

ELECTIVES ..... 30 Hours

*BOTANY

10. PLANT BIOLOGY AND MAN. *The Staff.*
Basic studies of life, employing a variety of plant materials and emphasizing the relationship of structures and processes to the welfare of man.

11. PLANT BIOLOGY AND MAN (Continued). *The Staff.*
A study of the reproduction, heredity, evolution, and environmental relationships of representative groups of plants, emphasizing economic and cultural applications.

21. ELEMENTARY BOTANY. Three one-hour lecture periods and two two-hour laboratory periods. *The Staff.*
A study of (a) the structure of leaves, stems, and roots: (b) growth and nutritive processes of plants; and (c) the relations of plants to their environment.

22. ELEMENTARY BOTANY (Continued). Three one-hour lecture periods and two two-hour laboratory periods. *The Staff.*
A study of reproduction, variation, heredity, and evolution of seed plants, with studies of representatives of the other major plant groups and their importance.

305. IDENTIFICATION OF FLOWERING PLANTS. Five double laboratory periods. *Mr. Duncan.*
Studies in the identification of plants with emphasis on wild flowers. Field trips, outdoors when possible. Attendance on scheduled all-day or longer trips to mountains, coastal islands, etc., may be substituted for an appropriate number of regular sessions. Not open to freshmen without consent of the instructor.

306. IDENTIFICATION OF TREES AND SHRUBS. Three two-hour periods each week plus three full-day trips as scheduled. Prerequisites: Permission of instructor. *Mr. Duncan.*
Studies in the identification of trees and shrubs.

323. ELEMENTARY PLANT ANATOMY. Five two-hour laboratory periods. Prerequisites: Botany 10-11 or Botany 21-22. *Mr. Carlton.*
The origin and development of the organs and tissue systems of vascular plants, and a comparative study of the structure of roots, stems, leaves, flowers, and fruits.

358. METHODS IN PLANT HISTOLOGY. Five double laboratory periods. Prerequisites: Botany 10-11 or Botany 21-22. *Mr. Carlton.*
Principles and methods of killing, fixing, embedding, sectioning, staining, and mounting plant materials for microscopic study.

375. PLANT ECOLOGY. Five double laboratory-discussion periods and field trips. Prerequisites: Botany 10-11 or Botany 21-22. *Mr. Jacobs.*
The relation of plants and plant communities to the environment in which they grow.

380. PLANT PHYSIOLOGY. Five double laboratory periods. Prerequisites: Botany 21-22 or Botany 10-11. *Mr. Wilson.*
A survey of physiological processes occurring in economic plants and the conditions which affect these processes.

*Students may be held responsible for breakage in laboratory courses.

428. Morphology of Thallophytes. Five two-hour laboratory-discussion periods. Prerequisites: Botany 21-22 or Botany 10-11 and two senior division courses in plant sciences. *Mr. Carlton.*

An introductory study of the structure and reproduction of thallophytes with emphasis on the algae and comparative studies of algae with representative fungi. Collection and identification is included.

471. Taxonomy of Seed Plants. Five double laboratory periods. Prerequisites: Botany 305 and any other senior division course in botany or approved course in plant pathology, forestry, or geography. *Mr. Duncan.*

A study of the concepts and system of classification, problems of nomenclature, and the taxonomy of specialized groups.

472. Taxonomy of Seed Plants (continued). Two lectures and three double laboratory periods. Prerequisite: Botany 471. *Mr. Duncan.*

A continuation of Botany 471.

473. Identification of Grasses. Five double laboratory periods. Prerequisites: Botany 10-11 or Botany 21-22 and two senior division courses in botany or approved courses in other plant sciences. *Mr. Duncan.*

Studies in the identification of grasses with emphasis on structure, classification and ecological relationships of economically important species.

476. Vegetation of North America. Four lectures and one two-hour laboratory period. Prerequisite: Botany 21 and 22, Botany 375 and one other senior division course in botany or acceptable course in geology and geography. *Mr. Jacobs.*

A study of the past and present distribution of the major vegetation types of North America together with the analysis of the factors affecting this distribution. A study of indicator plants and land utilization is included.

482. Nutrition of Green Plants. Two lectures and three double laboratory periods. Prerequisites: Botany 380 and one other senior division course in botany. *Mr. Wilson.*

A study of the nutrition of the higher plants, including major and minor elements and deficiency symptoms.

483. Advanced Plant Physiology. Two lectures and three double laboratory periods. Prerequisites: Botany 380 and any other senior division course in botany, chemistry, or physics. *Mr. Wilson.*

An evaluation of accepted concepts in plant physiology with special attention to the methods employed in arriving at these concepts.

GRADUATE COURSES

802 and 804. Problems in Botany. 5 hours for each course. Under this heading work may be pursued under the direction of staff members in plant ecology, plant morphology, plant taxonomy. Prerequisite: Two graudate courses in Botany.

831. Morphology of Seed Plants. One lecture and four two-hour laboratory periods. Prerequisite: Botany 323 and one other senior division course in botany or plant pathology. *Mr. Carlton, Mr. Westfall.*

Critical studies of representative seed plants considering their development, morphology, and relationships.

840. Cytology. Two lectures and three double laboratory periods. Prerequisite: Zoology 370, or equivalent, and one other approved senior division course. *Mr. Westfall.*

The study of cells, their cytoplasm and nuclei, metabolism, growth, differentiation and reproduction.

842. Cytogenetics. Two lectures and three double laboratory periods. Prerequisite: Zoology 370, or equivalent, and Botany 840. *Mr. Westfall.*

A course dealing with the correlation of genetic data and cytological structures and processes, emphasizing the mechanisms of normal chromosome distribution, chromosomal aberrations, and their relationship to the development of species.

877. Ecological Anatomy. Three lectures and two two-hour laboratory periods. Prerequisite: Botany 21 and 22 and two senior division plant science courses. *Mr. Jacobs.*

A study of relationships between plant structure and environment, including a detailed ecological classification of plants together with microscopic examination of the structure of representative examples of each type discussed and a consideration of genetic and somatic adaptations.

880, 881, 882, 883, and 884. Botany Seminar. One hour credit each quarter.

Meetings of botany students and faculty to discuss recent literature and problems under investigation. Open to graduate students in botany and related plant sciences.

DAIRY DEPARTMENT

(Dairy Building, South Campus)

Division Chairman and Head: Henderson. Staff: Bennett, Dalton, Donker, Miller, Sheuring, Speck.

The dairy industry in Georgia has been steadily increasing in importance for a number of years. With this growth there has also been an increase in the demand for trained personnel in the various phases of the dairy industry.

With the rapid increase in the industrial development within the state, commercial dairying has become of much greater importance. Sales of fluid milk are more than double that of ten years ago. For the most part, however, the milk for butter, cheese, evaporated milk, powder, and similar products is imported from other states. During recent years much effort has been expended toward developing a greater supply of manufacturing grade milk. Markets are already being developed for this type of milk. This development of the dairy industry in Georgia has greatly increased the demand for young men trained in this field.

The Dairy Building provides adequate facilities for teaching all phases of manufacturing, processing, and distributing dairy products. One wing of the building houses a dairy manufacturing laboratory which is used for training students in the operation of milk processing equipment, the processing of market milk, and the manufacturing of ice cream, butter, cheese, and condensed milk.

The dairy farm is provided with modern barns of unusual beauty. A practical program of feed production and herd management is conducted for the benefit of students in the University, research, and demonstration to visitors. A herd of purebred dairy cattle representing two of the major breeds is maintained on the college farm.

Special Students. Frequently, requests are received relative to short periods of training on a non-degree basis. The laboratories of the department are available at all times for informal training under the supervision of the person in charge of the laboratory.

It should also be pointed out that any resident of the state may, under certain circumstances, register in the University as a special student and take any courses regularly taught. The Dairy Department can usually arrange sitisfactory programs of study to fit the needs of the individual. These will range from three months (one quarter) to two years (six quarters).

Scholarships. Several scholarships are available to students desiring to major in one of the three programs of the dairy department. For information as to availability of scholarships, write the Head of the Dairy Department, University of Georgia, Athens.

Concentrations. For students regularly enrolled in the University, the Dairy Department offers two concentrations in the College of Agriculture. One of these is in the field of dairy production and the other is in the field of dairy manufacturing. In addition, a special concentration in dairy plant management is offered through the School of Business Administration. The suggested programs given here may be altered to suit the needs of the individual student.

CONCENTRATION IN DAIRY PRODUCTION

Major: Dairy 379, 390, 392, 394 ..... 20 Hours

Science Selections: Bacteriology 350, Plant Pathology 358, Entomology 374, Zoology 390, and one other course in Science Selection group approved by Head of Department ..... 25 Hours

First Minor: Animal Husbandry 373 and one other Senior Division course in Animal Husbandry ..... 10 Hours

Second Minor: Agronomy 321 and 356 ..... 10 Hours

General Electives: To be approved by the Head of the Department 30 Hours

CONCENTRATION IN DAIRY MANUFACTURING

Major: Dairy 350, 394, 395, 399 ..... 20 Hours

Science Selections: Bacteriology 350, Veterinary Medicine 200, and four other courses in Science Selection group approved by Head of Department ..... 25 Hours

First Minor: Dairy 389, 396 ..... 10 Hours

Second Minor: Business Administration 370 and 371 or 6x and 6y ..... 10 Hours

General Electives: To be approved by the Head of the Department ..... 30 Hours

CONCENTRATION IN DAIRY PLANT MANAGEMENT

(Offered in the School of Business Administration)

For those students who wish to combine a technical knowledge of the dairy manufacturing industry with business administration training, the following special curriculum leading to the degree of Bachelor of Business Administration has been provided.

Freshman and Sophomore Years

	Hours		Hours
English 2x-2y	10	English 22x-22y	10
Mathematics 101x	5	Chemistry 260	5
Chemistry 21-22	10	Bacteriology 350	5
Economics 5x-5y	10	Political Science 1	5
History 110x-110y	10	Business Administration 8	3
Business Administration 1 a-b-c	0	Business Administration 6x-6y	10
Military 1 or Air Science 5	5	Physical Science 1	5
Physical Education 1 (for men)	0	Economics 33	5
or		Military 2 or Air Science 6	5
Physical Education 1 (for women)	5	Physical Education 2 (for men)	0
		or	
		Physical Education 2 (for women)	5
Total	50	Total	53

Junior

	Hours
Economics 312, 326, 360, 386	20
Business Administration 351, 370	10
Dairy 350, 389, 394	15
Total	45

Senior

	Hours
Business Administration 395	1
Business Administration 560, 564, 578	15
Dairy 395, 396, 399	15
Electives	17
Total	48

DAIRY

3. Elements of Dairying. 3 hours. *Mr. Henderson* and *the Staff.*
An elementary course in dairying, dealing with the following general subjects: relation of dairying to agriculture; application of the Babcock test to farm practices; care and handling of milk and cream on the farm; milk secretion; feeding, breeding, judging, and selection of dairy cattle.

301-302-303. Dairy Seminar. 1 hour each. *The Staff.*
Topical discussion of current problems and scientific work in dairying.

350. Dairy Chemistry. Prerequisite: Chemistry 21-22. *Mr. Sheuring.*
A basic study of the chemical and physical properties of milk; analysis of milk and milk products according to standard methods; functions and operations of a dairy control laboratory.

356.5. Dairy Cattle Fitting and Showing. 1 hour. *Mr. Dalton.*
Credit will be given for preparation of animal and showing the animal in the Little International Livestock Show.

379. Dairy Herd Operations. Prerequisites: Dairy 3, Animal Husbandry 373. *Mr. Dalton.*
All phases of dairy herd management with special emphasis on the following: herd appraisal, auction sales; classification, health programs; applications for registry and health certificates; intra- and inter-state shipments of animals; dairy farm plans and practices.

380. Dairy Cattle Judging. 3 hours. *Mr. Dalton.*
A course planned to offer instruction in the judging of dairy cattle according to type and conformation.

385. Dairy Products Judging and Grading. 3 hours. *Mr. Sheuring.*
Scoring and grading of milk, butter, cheese, and ice cream.

388. Milk Sanitation. 3 hours. *Mr. Bennett.*
A course especially designed for students interested in employment in milk inspection work. Training is given in interpretation of the recommendations of the U. S. Public Health Service Milk Ordinance Code, inspection of dairy farms and plants, state and municipal dairy ordinances, and methods used in conducting a milk sanitation program.

389. Dairy Bacteriology. Prerequisite: Bacteriology 350. *Mr. Bennett.*
Determination of numbers and types of bacteria; use of microorganisms in the manufacture of dairy products; study of milk fermentations and disease producing organisms applicable to milk.

390. Dairy Cattle Improvement. Prerequisite: Plant Pathology 358. *Mr. Miller.*
A study of factors involved in improving the genotype and phenotype of dairy cattle. Mating systems and techniques, production testing, type classification, sire proofs and pedigrees. Application of genetics, anatomy, endocrinology, and physiology to improvement of dairy cattle.

392. Dairy Cattle Nutrition. Prerequisites: Animal Husbandry 373, Chemistry 260. *Mr. Miller.*
The application of fundamental knowledge of nutrition, physiology, environment, and economics in the feeding and management of the dairy herd.

394. Market Milk and Related Products. Prerequisites: Dairy 3. *Mr. Sheuring.*
The sanitary and legal requirements for producing, handling and processing milk and related products; approved production methods; quality tests; processing operations; plant sanitation and efficiency.

395. Dairy Plant Management. Prerequisite: Dairy 3. *Mr. Sheuring.*
Fundamental principles of business and factory management practices as used in the dairy industry. Problems of personnel management, production methods, quality control, merchandising, dairy plant design and construction, records and business methods involved in dairy plant operations.

396. Butter and Cheese Technology. Prerequisite: Dairy 389. *Mr. Sheuring.*
Theory and practices involved in the manufacture of dairy products through coagulation and precipitation phenomena as well as control fermentation; cheese varieties, butter, and fermented milks; starter activity; cheese ripening; and butter flavor development.

399. Ice Cream Making. Prerequisite: Dairy 3. *Mr. Sheuring.*
Basic principles of ice cream mix composition, standardization, flavoring, stabilization, processing, freezing, merchandising, and storage of ice cream, sherbets, ices, and soft-serve dairy products.

411. Microbiology of Market Milk and Ice Cream. Prerequisites: Chemistry 260, and Dairy 389. *Mr. Bennett.*

Microorganisms found in market milk, ice cream, and related products and their relationship to spoilage of the products and to epidemiology.

412. Microbiology of Butter, Cheese, and Cultured Milks. Prerequisites: Chemistry 260, and Dairy 389. *Mr. Bennett.*

Metabolic changes resulting from the growth of microorganisms occurring in milk and cream intended for manufacturing dairy products, and in butter, cheese, and cultured milks; bacteriophage affecting dairy microorganisms.

GRADUATE COURSES

800. Dairy Chemistry. Prerequisites: Dairy 350, 389, 394, or equivalent. *Mr. Sheuring.*

A comprehensive study of the fundamental chemical and physical properties of milk and milk products. The basic laws concerning factors that affect the chemical composition, pH, viscosity, surface tension and coagulation of milk will be studied. The course will consist of lectures, discussions, surveys of literature, and special reports.

801. The Nutritional Properties of Dairy Products. Prerequisites: Chemistry 451, Dairy 800 or their equivalent. *Mr. Sheuring.*

A study of the basic nutritional properties of the constituents of milk and milk products and the effect of processing and storage methods upon these nutritive values.

802. The Chemical Analysis of Dairy Products. Prerequisites: Chemistry 380, Dairy 800 or their equivalents. *Mr. Sheuring.*

Theory and practice in analytical methods used for control and research in dairy chemistry; analysis of milk fat, proteins, lactose, lactalbumin, lactoglobulin, and minerals; methods of determining hydrolytic and oxidative rancidity; factors involving rennin action, surface tension, viscosity and freezing point determinations. The course consists of lectures and laboratory assignments.

803. Physical Chemistry of Dairy Products. Prerequisites: Chemistry 390, Dairy 802, or their equivalents. *Mr. Sheuring.*

Lectures and laboratory exercises concerning oxidation-reduction potentials, surface tension, absorption, plasticity, isoelectric point of proteins, collodial properties of milk constituents. emulsions, and molecular dispersions as related to milk and milk products.

805-806. Special Problems in Dairy Cattle Feeding and Management. 10 hours. Prerequisites: Dairy 390, 392, 394 or equivalent. *Mr. Miller.*

A study of research work on the subject with special problems to be selected.

819. Advanced Dairy Technology. Prerequisites: Dairy 800, Physics 334, or their equivalents. *Mr. Sheuring.*

A study of basic chemical, physical, bacteriological and mechanical problems involved in the engineering and design of dairy processing equipment; theories of heat transfer, thermodynamics; thermal properties of solids and liquids; properties of metals, utilization of high pressures, partial vacuums and mechanical principles as affecting design, construction and operation of dairy equipment.

820. Dairy Technology Problems. Prerequisites: Two graduate courses in dairying or their equivalents, and the consent of the major professor. *Mr. Bennett, Mr. Miller,* and *Mr. Sheuring.*

A special course for students qualified to carry out individual projects in dairy production, bacteriology, or manufacturing. Work is done independently of the regularly scheduled classes. The course is available only to advanced graduate students and with the consent of the major professor.

930. Thesis Research in Dairying. 5 to 50 hours.

Offered any quarter to meet the needs of any candidate for a degree of Master of Science. Open only to graduate students majoring in the field of dairying.

ENTOMOLOGY

(Baldwin Hall, North Campus)

Head: Lund. Staff: Paul.

It is generally recognized that a thorough knowledge of insect control is necessary for the successful growing of either farm plants or farm animals and should, therefore, be a part of the training of all agricultural personnel. In addition many positions in teaching, research, control, and extension ento-

mology exist in colleges and universities, experiment stations, state departments of entomology, the United States Department of Agriculture, the United States Public Health Service, and in various private concerns doing pest control or insecticide compounding or manufacturing. Advanced study leading to advanced degrees and to higher teaching and research positions is also available. The entomology major provides an excellent pre-medical program.

Students who specialize in entomology receive training in the identification of insects and the damage they cause, their structure, habits, and control.

PROGRAM FOR MAJOR IN ENTOMOLOGY

MAJOR: Four senior division courses in Entomology, three of which must be chosen from Entomology 373, 374, 376, 477 ..... 20 Hours

SCIENCE SELECTIONS FROM: Bacteriology 350, Plant Pathology 358 and three additional courses from the following: Botany 375, Botany 380, Geology 25, Plant Pathology 353, Zoology 390..... 25 Hours

FIRST MINOR: To be approved by Head of Department..... 10 Hours

SECOND MINOR: Must be in College of Agriculture. ..... 10 Hours

ELECTIVES ..... 30 Hours
To be chosen with the objective of obtaining information that will contribute most to economic gains through insect control, and to be approved by the major professor.

ENTOMOLOGY

373. GENERAL ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisites: Two courses in plant or animal biology. *Mr. Paul.*
A field and laboratory study of the structure, biology, and classification of insects and of their general importance and significance to man.

374. ECONOMIC ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisites: Two courses in plant or animal biology. *Mr. Paul.*
A course designed to provide the practical information essential for the recognition and control of the insect pests most commonly encountered in the field, orchard, garden, woodlot, and home.

375. FOREST ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisites: Two courses in plant or animal biology. *Mr. Lund.*
A study of the biology, identification, and control of the species of insects destructive to American forests.

376. MEDICAL ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisites: Two courses in plant or animal biology. *Mr. Lund.*
A study of the biology, identification, and control of the species of insects and related arthropods of particular importance in the cause of transmission of diseases of man and the lower animals.

474. ADVANCED ECONOMIC ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisite: one of the following entomology courses: 373, 374, 375, or 376. For graduate credit, one additional senior division course is required. *Mr. Paul.*
An advanced treatment of economic entomology, including actual field work in experimental methods, biological control, and the insect transmission of plant diseases.

477. CHEMISTRY AND TOXOCOLOGY OF INSECTICIDES AND FUNGICIDES. Three lectures and two double laboratory periods. Prerequisites: one course in organic chemistry and one of the following entomology courses: 373, 374, 375, or 376. For graduate credit, one additional senior division course is required. *Mr. Paul.*
A study of the physical and chemical behavior of insecticides, and accessory materials and of their toxicological effects upon plants and animals.

GRADUATE COURSES

805. Insect Parasites. Prerequisites: Entomology 376 and one additional senior division course in entomology. *Mr. Lund.*
An advanced study of the structure, life-histories, and identification of those insects and related arthropods which cause or transmit disease in man or lower animals.

871. Taxonomy of Insect Larvae. Two lectures and three double laboratory periods. Prerequisites: Any one of the following: Entomology 373, 374, 375, or 376 and one additional senior division course. *Mr. Lund.* (Offered alternate years).
A study of the classification, biology, and phylogenetic and economic significance of insect larvae.

873. Advanced General Entomology. Three lectures and two double laboratory periods. Prerequisites: Entomology 373 and one additional senior division course are required. *Mr. Lund.* (Offered alternate years).
An advanced treatment of general entomology, including biological nomenclature, insect evolution and classification, sensory physiology, and other special topics.

DEPARTMENT OF FOOD TECHNOLOGY

(Conner Hall and Food Processing Plants, South Campus)

Head: Powers. Staff: Flanagan, Huff, Pratt.

Food processing has been steadily increasing in importance in the Southeast for a number of years. The growth of the food processing industries has created a demand for college graduates with training in food technology.

The Department of Food Technology offers both undergraduate and graduate instruction designed to give basic, technical training for the laboratory and production phases of the following industries: canning, freezing, pickling, preserving, meat processing, and the preparation and preservation of specialty food products. Superior students are encouraged to undertake graduate study because of the greater opportunities open to food technologists with an advanced degree.

Usually some financial assistance is given students in the form of part-time employment as student helpers either as a part of College Experiment Station research projects or research supported by industrial grants-in-aid.

During 1955-56, two scholarships of $250 each, donated by the Savannah Sugar Refining Corporation and by the Georgia Canners Association, will be available for freshman students or junior transfer students majoring in food technology. Details as to application may be secured from the Food Technology Department.

The department has facilities for instruction and for research. The facilities for instruction are sufficiently large to enable the student to obtain practical experience. The department has a Food Processing Center containing a community-type canning plant, cold storage and freezing rooms, commercial canning equipment, and a research laboratory. In addition, the department has a commercial-type Meat Processing Plant.

Occupations open to graduates are briefly: teaching, extension work with the state and federal agencies; research work with experimental stations, federal agencies, or private industry; locker operation; technical sales, and production work with food processors and equipment or container manufacturers; food consulting; food inspecting; and promotional work with public utilities.

Concentrations are not listed herewith but are planned to meet the need of the individual student. Minor work is offered to students taking their major work in other departments. The department offers major work for the degree of Master of Science.

REQUIREMENTS FOR A MAJOR IN FOOD TECHNOLOGY

FRESHMAN-SOPHOMORE CURRICULUM: Majors in Food Technology will be required to take Agricultural Engineering 2 or 4, Chemistry 23, Mathematics 101y, and 10 hours of electives selected from the following courses: Agricultural Economics 4, Animal Husbandry 1, Business Administration 6x-y, Dairy 3, a foreign language, Home Economics 3, Philosophy 104, Poultry 60, Psychology 1, or Speech 50. The requirements described above replace the following courses usually required: Agricultural Economics 4, Agronomy 1, Animal Husbandry 1, Dairy 3, 5-hours elective, Forestry 2, and Poultry 60. Majors in Food Technology should select Agricultural Engineering 205-206 to constitute the 6-credit hours of Agricultural Engineering required during the sophomore year.

MAJOR: Food Technology 363, 411, 412, 414 ..... 20 Hours

SCIENCE SELECTIONS: Bacteriology 350, Chemistry 380, Plant Pathology 353, and two other courses selected from approved Science Selections ..... 25 Hours

FIRST MINOR: Any department in the University ..... 10 Hours

SECOND MINOR: Any department in the College of Agriculture ..... 10 Hours

SPECIAL REQUIREMENT: Food Technology 423 ..... 5 Hours

GENERAL ELECTIVES: ..... 25 Hours

FOOD TECHNOLOGY

363. FOOD PRESERVATION. *Mr. Powers, Mr. Huff.*

An introduction to the field of food preservation with emphasis on the standard practices of canning, freezing, and dehydration. A complete unit for those desiring a general course or for those interested in community food preservation.

364. TECHNOLOGY OF FROZEN AND REFRIGERATED FOODS. *Mr. Pratt.*

Chemical and physical changes encountered during freezing and refrigerated storage of foods, causes of spoilage, packaging, the retention of nutrients, and quality control. Principles of basic refrigeration systems and equipment and methods used in freezing fruit, vegetable, meat, and marine products at home, in locker plants, and as large commercial enterprises.

365. MEAT CUTTING. Prerequisite: Bacteriology 350. *Mr. Flanagan.*

This course is designed to teach students and prospective locker operators skills in cutting beef, pork, lamb, and poultry suitable for markets, locker plants, and home use.

367. FOOD INDUSTRIES SURVEY. Prerequisites: Food Technology 363, 409 or equivalent. *Mr. Powers.*

This course includes the study of the sources of raw materials, the processing, storage, and handling of such processed foods as sugar, flour, salt, and spices; and the problems involved in the production of these products.

368. MEAT PROCESSING. Prerequisite: Bacteriology 350. *Mr. Flanagan.*

This course includes instruction in killing, skinning, dressing of pork and beef; grading, care of hides; utilizataion of inedibles; curing of beef and pork; artery and stitch pumping; smoking, packaging, and storing of cured pork products; manufacture of specialty meat products.

376. PROCESSING OF POULTRY AND POULTRY PRODUCTS. 3 hours. (See Poultry 376.)

409. COMMUNITY AND HOME FOOD PRESERVATION. Prerequisites: Bacteriology 350 and Chemistry 260 or equivalent. *Mr. Powers, Mr. Huff.*

The principles of food preservation will be studied with reference to present practices and possible improved practices in home and community food preservation. The effect of various methods of food preservation will be evaluated in terms of public health, food spoilage, food quality, and the nutritional value of the foods.

411. FOOD TECHNOLOGY PRINCIPLES AND INDUSTRIAL PRACTICES. Prerequisites: Bacteriology 350, Chemistry 260 and Food Technology 363 or 409. Two lectures and two 3-hour laboratories. *Mr. Powers, Mr. Pratt.*

Biochemical, colloidal, enzymatic, microbial, and physical changes occurring in foods during processing will be integrated to show the fundamental principles of food technology. Present practices, the application of research and food technology principles to the development of better products, and the food purity laws will be among the subjects studied.

412. Food Technology Principles and Industrial Practices. (Continued). *Mr. Powers, Mr. Pratt.*

414. Chemical and Microscopic Food Analysis. Prerequisites: Bacteriology 350, Chemistry 260, Food Technology 363 or 409. One lecture and two 4-hour laboratories. *Mr. Pratt, Mr. Powers, Mr. Huff.*

Chemical, microscopic, and organoleptic methods of food examination basic to the detection of adulteration, to food grading, to quality control, and as training in technique for research will be studied. Particular emphasis will be placed on the use of *Methods of Analysis* of the Association of Official Agricultural Chemists, *Chemical Abstracts*, and other original sources of information in planning, making and interpreting analyses.

415a-b. Food Technology Seminar. Prerequisites: Any two senior division courses in Food Technology. 2 hours each. *The Staff.*

A discussion course, required of all students majoring in the department in which journal articles from basic and applied fields of science are assigned, presented, and discussed.

415c. Food Technology Seminar. 1 hour. Same as the above course.

421. Microbial Food Analysis. Prerequisite: Food Technology 414. One lecture and two 4-hour laboratories. *Mr. Powers, Mr. Pratt.*

Microbiological, physical, and mathematical considerations involved in determining thermal death times, rates of heat penetration, and in calculating the lethality of processes will be studied with particular references to spore-forming anaerobes. Isolation, enumeration, and factors affecting sporogensis, dormancy, and spore germination will be studied. The General Method, Ball's Method, and the newer concepts of process calculation will be compared.

422. Instrumental Methods of Food Analysis. Prerequisite: Food Technology 414. One lecture and two 4-hour laboratory periods per week. *Mr. Pratt.*

Polarographic, spectrophotometric, colorimetric, and potentiometric methods of analysis as applied to food will be studied. Emphasis will be placed upon correlation and interpretation of results.

423. Advanced Food Packaging. Prerequisites: Food Technology 412 and 414. *The Staff.*

Physical, chemical, microbiological, and economic problems related to food packaging. Characteristics and uses of metal, glass, paper, and flexible film packaging materials and containers. Methods of testing packages and packaging materials for performance such as physical strength, water-vapor permeability, organic vapors transmission, odor transmission, greaseproofness, and humidity equilibria of foods.

424. Advanced Technology of Meat, Fish, and Poultry Processing. Prerequisites: Food Technology 411, 414, and 421. *The Staff.*

Advanced theoretical and applied concepts relating to physical, chemical, enzymatic, and microbial changes occurring in meat, fish, and poultry products during processing will be studied with particular reference to canning, curing, freezing, refrigeration, spoilage of fresh and processed flesh products, and the use and development of by-products.

GRADUATE COURSE

819-820. Methods in Food Technology. Prerequisite: Food Technology 414. Two discussion periods and six laboratory periods per week. *Mr. Powers* and *Staff.*

Selected problems associated with food preservation will be studied intensively to extend the student's knowledge of food technology principles and to develop greater facility in the appreciation of scientific methods to the solution of new problems. Principles and techniques from both basic and applied fields of science will be studied.

GENERAL AGRICULTURE

(Conner Hall, South Campus)

This concentration, known as General Agriculture, is open to any junior and senior student in the College of Agriculture. It is a combination of courses selected from all departments in the College. Students wishing to register for this program should report to the Associate Director of Resident Instruction.

General Agriculture represents a program recommended for students wishing to prepare themselves for entering upon the business of *general farming.*

As compared with majoring in any specific department, it may offer greater freedom in course selection.

MAJOR: Agronomy 321 and 356, Animal Husbandry 373, Agricultural Economics 301 ..... 20 Hours

SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 353 and 358, Entomology 374, and one other selected from science group 25 Hours

FIRST MINOR: Animal Husbandry 371, Poultry 371, Dairy 392 (any two courses) ..... 10 Hours

SECOND MINOR: Horticulture 362, Plant Pathology 356, 357, Agronomy 320, 332, 458 (any two courses) ..... 10 Hours

SPECIAL REQUIREMENTS: Food Technology 363, Agricultural Engineering 203, Veterinary Medicine 200 (any two courses) ..... 10 Hours

GENERAL ELECTIVES ..... 20 Hours

DEPARTMENT OF HORTICULTURE

(Conner Hall, South Campus)

Division Chairman and Head: Johnstone. Staff: Bowden, Curtis, Keener, Young.

The field of horticulture is concerned with the production and marketing of vegetables, fruits, flowers and ornamental plants. Specialized training is offered in each of these divisions.

The concentration in Vegetable Crops prepares students for truck growing, market gardening, production of vegetables for processing, vegetable plant production, and vegetable seed production. In addition, graduates may be employed in allied industries servicing and supplying vegetable producers. Salesmen for equipment, fertilizers, spray materials and seed; operators of farmers' or cooperative markets; buyers or representatives for chain stores; and field men for canneries or quick freeze plants are examples. Opportunities are available as well in transportation, inspection, marketing, and regulatory services. Advanced work leads to positions in teaching, extension and research.

Opportunities in Floriculture and Ornamental Horticulture lie chiefly in the commercial field. Many graduates go into business for themselves as producers of flowers and ornamentals. Openings are also available for greenhouse technicians, foremen or managers; specialists for pruning, spraying, and transplanting for large nurseries; for salesmen in wholesale commission houses or with seedsmen or brokers; for the development and maintenance of grounds of industrial concerns and other institutions; and in cemetery and park work. Students who continue in graduate work either here or at some other institution have excellent openings in teaching, research, and extension.

Training in the Pomology concentration prepares students for the efficient commercial production of trees and small fruits. Opportunities are also found in work with the industries which service or supply the fruit growers. Some of these are salesmen for equipment, fertilizers, and spray materials; operators of farmers' or cooperative markets; operators of large orchards or small fruit plantings; buyers or representatives for chain stores or other concerns and field men for canneries. Advanced degrees lead to a variety of openings in teaching, extension, and research.

The Department of Horticulture has greenhouses, gardens, and a one-hundred and twenty acre farm, eight acres of which are under irrigation. Numerous varieties of fruits, flowers and vegetables are produced for instructional and experimental purposes.

Students may enter the concentrations in the Department of Horticulture at the completion of the required freshman and sophomore courses in agriculture or their equivalent.

HORTICULTURAL CONCENTRATIONS IN FRUIT PRODUCTION, VEGETABLE PRODUCTION, FLORICULTURE, AND ORNAMENTAL PLANT PODUCTION

MAJOR: Selected junior and senior courses in horticulture ..... 20 Hours

SCIENCE SELECTIONS: Bacteriology 350, Botany 380, Plant Pathology 353 and 358, Entomology 374 ..... 25 Hours

FIRST MINOR: To be approved by Head of Department. Two junior or senior courses in any one department of the University..... 10 Hours

SECOND MINOR: Two junior or senior courses in any department of the College of Agriculture. To be approved by Head of Department ..... 10 Hours

SUGGESTED ELECTIVES: Agricultural Economics 304, Agronomy 356, 423, 324, 459, Animal Husbandry 373, Botany 305 or 306, 323, Chemistry 23, Economics 312, Food Technology 363 or 409, Geology 25, Landscape Architecture 313, Plant Pathology 357, Business Administration 370, 560, 561, 562, 563, Advanced Military or Air Science. Electives to be adapted to fit special cases, as approved by Head of Department ..... 30 Hours

HORTICULTURE

1. GENERAL HORTICULTURE. 3 hours. Prerequisite: Botany 21 or Botany 22. *Mr. Johnstone* and *Mr. Keener.*

A survey of the field of horticulture with discussions of the principles and practices used in vegetable, fruit, flower, and ornamental plant production.

308. PRINCIPLES OF FLORICULTURE AND ORNAMENTAL HORTICULTURE. 3 hours. Prerequisite: Horticulture 1. *Mr. Curtis.*

A study of the principles of plant growth as they are applied to the production of flowers and other ornamentals. Emphasis is placed on the effect of temperatures. light, nutrients, and water on growth and development. This course should be selected by non-majors desiring only one course in floriculture.

310. GREENHOUSE CONSTRUCTION AND MANAGEMENT. 3 hours. *Mr. Bowden.*

Emphasis is placed upon types of greenhouses and methods of construction; geographical and topographical locations; structural materials; heating; equipment; plans; estimates; irrigation; and management. Cloth and lath or slat houses; coldframes and hotbeds; pits and storage houses.

311. FLORAL DESIGN. 3 hours. *Mr. Bowden.*

The commercial aspects of floral design. Emphasis is placed upon the science, art, and psychology of color; line and design; floral designs, basket and bowl arrangements; church, house, hotel and wedding decorations as well as wedding bouquets, corsages and emblems.

316. FLOWER STORE MANAGEMENT. 2 hours. *Mr. Bowden.*

A study of materials, equipment, supplies, and arrangement of retail floral shops. Sources of flowers and supplies.

321. THE MAINTENANCE OF ORNAMENTAL PLANTINGS AND LANDSCAPE MANAGEMENT. (Landscape Architecture). 3 hours. Prerequisite: Horticulture 1. *Mr. Johnstone* and *Mr. Wigginton.*

Formulation and study of a work program which considers those essential operations contributing to the successful landscape management of grounds. Methods of maintaining lawns, hedges, perennial and annual beds and borders, walks, pools, trees, specimen plants and other ornamental plantings. One two-day field trip required.

322. SMALL FRUIT AND GRAPE PRODUCTION. 3 hours. Prerequisite: Plant Pathology 357. *Mr. Curtis.* (Offered alternate years. Not offered in 1955-56).

Production of grapes, blue-berries, strawberries, blackberries, dewberries and other small fruit.

353. Sprays, Dusts, and Fumigants and Their Applications. Prerequisites: Plant Pathology 353 and Entomology 374. *Mr. Curtis.*

Selection, preparation, and application of sprays, dusts, and fumigants for the control of insects, diseases, weeds, and other pests of horticultural crops. Especial attention is given to spraying and dusting schedules, effects of various chemicals on different kinds of plants, ecological factors, residues, application machinery, and economical considerations. The practical side of pest control is stressed.

362. Plant Propagation and Nursery Production. Prerequisite: Horticulture 1. *Mr. Keener.*

Principles and practices of plant propagation as applied primarily to horticultural crops. The culture and care of nursery properties are also considered.

400. Horticultural Seminar. 1 hour. *The Staff.*

Open to all students in related fields. Attendance without registering for credit is permitted. Papers on selected topics to be presented by advanced students, faculty members, and guest speakers.

401. The Fundamentals of Fruit Production. Prerequisites: Botany 380, Horticulture 353 or Plant Pathology 353, or equivalent. *Mr. Curtis.*

This course deals with the biological and chemical principles of plant life as directly applied to the economic production of fruit crops.

402. Advanced Pomology. Prerequisites: Horticulture 401, Plant Pathology 357, Entomology 374. *The Staff.* (Offered alternate years. Not offered in 1955-56).

Photosynthesis, respiration, transpiration, translocation and other physiological processes as they are related to problems in fruit production. The effects of environmental factors on vegetative growth, flowering and fruiting are also considered. A comprehensive review of the literature on research which has led to solutions of problems in production is a part of the course.

403. The Principles of Vegetable Production. Prerequisites: Botany 380, Horticulture 353, and Entomology 374. *Mr. Johnstone* and *Mr. Keener.*

A study of the principles and practices involved in the production of vegetable crops. The literature on research having to do with the development of olericulture is reviewed and studied in relation to current problems.

404. Advanced Olericulture. Prerequisites: Botany 380 and Horticulture 403. *Mr. Johnstone.* (Offered alternate years).

Photosynthesis, respiration, translocation, transpiration and other physiological processes as they are related to problems in vegetable production. The reaction of the above to changes in environmental factors, and the interaction of the above to changes in environmental-genetical factors upon vegetative growth, flowering, and fruiting are stressed. Research literature is thoroughly reviewed.

405. Advanced Floriculture. Prerequisites: Botany 380 and Horticulture 308. *Mr. Bowden* and *Mr. Curtis.*

Fundamental principles of plant growth and the effects of environmental factors such as temperature, water, air, nutrients, photoperiod and light intensity as they are related to cut flowers and potted plants grown under glass.

406. Advanced Floriculture (continued). Prerequisites: Botany 323 and Horticulture 405. *Mr. Bowden* and *Mr. Curtis.*

A comprehensive review of pertinent scientific literature and research on the ecology, physiology and other growth processes, storage, transportation, and distribution of commercial cut flowers and potted plants.

407-408. Special Problems in Horticulture. 2-5 hours each. For summer work 10 hours must be scheduled. Prerequisites: Horticulture 1, and at least 10 hours in one of the horticultural concentrations, or equivalent in experience or other combinations of courses. *Mr. Bowden, Mr. Curtis, Mr. Keener,* and *Mr. Johnstone.*

For the advanced undergraduate or graduate student who wishes to gain practical experience. Required of all major students who do not have a farm or plant production background. Graduate students must schedule at least 5 hours a quarter and must undertake a minor research problem under direction of a staff member.

421. The Handling, Preparation for Market, and Storage of Fruits and Vegetables. Prerequisites: Two senior college courses in fruits or vegetables. *Mr. Johnstone.*

Physiology of maturation and the effects of temperature, light, bruising and other factors on ripening. Also the relation of the above to various operations and equipment used in harvesting, handling, preparation for market and storage of fruits and vegetables.

GRADUATE COURSES

801. Horticultural Crop Improvement. Prerequisite: Plant Pathology 358, 401 or equivalent. *Mr. Johnstone.*

A study of the applications of the principles of genetics and plant breeding to the modification and improvement of horticultural plants. The maintenance of improved strains and seed production are also considered.

809. The History, Literature, and Development of Horticulture. Prerequisties: Two senior college courses in Horticulture. *Mr. Curtis.*

This course traces the important steps in the development of the applied science of horticulture as it is today. Particular reference is made to contributions of outstanding leaders in horticultural enterprises and organized research.

814. Methods in Horticultural Research. Prerequisites: B.S. or B.S.A. degree or equivalent in Horticulture or related field. *Mr. Johnstone* and *Staff.*

This course is designed primarily for the student who intends to complete the work for a Ph.D. degree or who wishes employment in a research position as technician or who intends to instruct at the college level. Field and laboratory methods in use in horticultural research are discussed and demonstrated or applied in laboratory exercises. This will include techniques from fundamental fields such as plant physiology, genetics, plant pathology, chemistry and biometry as these are applied to the solution of horticultural problems.

DEPARTMENT OF PLANT PATHOLOGY AND PLANT BREEDING

(Plant Pathology Building, South Campus)

Division Chairman and Head: Miller. Staff: Browne, Fleming, Kozelnicky, Thompson.

The recent introduction of many new diseases of agricultural crops and the importance placed on breeding plants for resistance to diseases has greatly increased the demand for trained personnel in these fields.

The specialized courses given in this department are designed to give instruction in the agencies causing diseases in plants and their effects upon the plant. They also include the principal methods by which these diseases may be controlled. The student also receives training in the principles and methods used in development of new varieties or strains of cultivated plants which are better adapted to agricultural uses and which are more resistant to certain diseases.

Students who specialize in this department receive training that will prepare them for work in the following fields:

1. Experiment station or U. S. D. A. specialists
2. Agricultural Extension specialists
3. State plant inspectors
4. Research or sales promotion workers for manufacturers of fungicides or insecticides
5. Plant breeders or other personnel for commercial seed companies.
6. Specialized types of agriculture such as commercial plant growers or producers of certified seed
7. Preparation for advanced study in fields of plant pathology or plant breeding leading toward the doctorate.

The outline of study is so arranged that the student may concentrate on diseases or breeding of crops with which he will later be concerned. The following concentrations are proposed but can be modified within a fairly wide degree of latitude depending upon the requirements of the student.

CONCENTRATION IN FIELD CROP DISEASES

MAJOR: Plant Pathology 356, 401, 420, 421 ..... 20 Hours

SCIENCE SELECTIONS: Bacteriology 350, Botany 380, Plant Pathology 353, 358, Entomology 374 ..... 25 Hours

FIRST MINOR: Botany 323, 375 ..... 10 Hours

SECOND MINOR: Agronomy 320, 321 ..... 10 Hours

GENERAL ELECTIVES FROM: Agronomy 356, 423, 461, Agricultural Economics 364, Botany 305, 483, Horticulture 353, Plant Pathology 402 ..... 30 Hours

CONCENTRATION IN TRUCK CROP DISEASES

MAJOR: Plant Pathology 357, 401, 420, 421 ..... 20 Hours

SCIENCE SELECTIONS: Bacteriology 350, Botany 380, Plant Pathology 353, 358, Entomology 374 ..... 25 Hours

FIRST MINOR: Horticulture 403, 404 ..... 10 Hours

SECOND MINOR: Botany 323, 375 ..... 10 Hours

GENERAL ELECTIVES FROM: Agronomy 356, 461, Agricultural Economics 364, Botany 305, 482, Horticulture 353, Plant Pathology 402 ..... 30 Hours

CONCENTRATION IN FRUIT TREE DISEASES

MAJOR: Plant Pathology 357, 401, 420, 421 ..... 20 Hours

SCIENCE SELECTIONS: Bacteriology 350, Botany 380, Plant Pathology 353, 358, Entomology 374 ..... 25 Hours

FIRST MINOR: Horticulture 401, 402 ..... 10 Hours

SECOND MINOR: Botany 323, 375 ..... 10 Hours

GENERAL ELECTIVES FROM: Agronomy 356, 461, Agricultural Economics 364, Botany 305, 483, Horticulture 353, Plant Pathology 402 ..... 30 Hours

CONCENTRATION IN PLANT BREEDING

MAJOR: Agronomy 423, Plant Pathology 356 or 357, 401, 402 ..... 20 Hours

SCIENCE SELECTIONS: Bacteriology 350, Botany 380, Plant Pathology 353, 358, Entomology 374 ..... 25 Hours

FIRST MINOR: Two senior division courses in College of Agriculture to be approved by the major professor ..... 10 Hours

SECOND MINOR: Botany 323, 375 ..... 10 Hours

GENERAL ELECTIVES FROM: Agricultural Economics 301, 304, 364, Agronomy 320, 321, 332, 356, 425, 461, Animal Husbandry 371, 372, 373, Botany 305, 358, Economics 312, Horticulture 353, 401, Mathematics 356, or any other appropriate senior division courses approved by major professor ..... 30 Hours

PLANT PATHOLOGY AND PLANT BREEDING

353. ELEMENTARY PLANT PATHOLOGY. Three lecture and two laboratory periods. Prerequisites: Botany 21-22. *Mr. Thompson.*

A general introduction to the diseases of plants. Representative types will be studied in field and laboratory.

354. Forest Pathology. Three lecture and two laboratory periods. Prerequisites: Botany 21-22. *Mr. Thompson.*

This course will be similar to Plant Pathology 353, but will differ in the use of types causing death or decay in trees. Methods of control suitable to both forest and city conditions will be studied.

356. Diseases of Field Crops. Three lecture and two double laboratory periods. Prerequisite: Plant Pathology 353. *Mr. Miller.*

A course designed to meet the needs of students in plant pathology and agronomy.

357. Diseases of Horticultural Crops. Three lecture and two double laboratory periods. Prerequisite: Plant Pathology 353. *Mr. Miller.*

A study of the more important diseases of fruits, vegetables, and ornamentals.

358. Agricultural Genetics. Prerequisites: Botany 21-22, or Zoology 25-26. *Mr. Fleming.*

An introductory course in agricultural genetics designed to acquaint the student with principles of heredity and variation and their application to breeding.

401. Plant Genetics. Prerequisite: Plant Pathology 358. *Mr. Fleming.*

Advanced studies in inheritance of plants, including the genetics of sterility and disease resistance, linkage, applications of chi-square to genetic experiments, and mutations.

402. Plant Breeding. Prerequisite: Plant Pathology 358. *Mr. Fleming.*

Fundamental methods utilized in plant breeding and the important role that breeding plays in crop improvement.

420-421. Mycology. 5 hours each. Three lecture and two double laboratory periods. Double course. Prerequisites: Two suitable senior division courses in either botany, microbiology or zoology. *Mr. Miller* and *Mr. Thompson.*

Comparative morphology of the fungi. Techniques of culture methods, isolation, sectioning, and inoculation are included.

GRADUATE COURSES

800-801. Research in Plant Pathology. 5 hours each. Prerequisites: Two senior division courses in Plant Pathology. *Mr. Miller* and *Mr. Thompson.*

This course involves the prosecution of a problem in plant disease with parallel reading and conferences with the instructor.

810-811. Research in Plant Genetics. 5 hours each. Prerequisites: Two senior division courses in Plant Pathology, Plant Breeding, or Botany. *Mr. Fleming.*

This series consists of a breeding problem with field studies, appropriate readings, and conferences.

812. Specialized Plant Breeding. 6 hours. Prerequisites: Plant Pathology 353, 402, and one senior division course in crop production. *Mr. Brown, Mr. Fleming,* and *Mr. Rogers.*

Conducted cooperatively by the Department of Agronomy and Department of Plant Pathology and Plant Breeding. A combination of lectures and laboratory periods in the greenhouse and experimental field with emphasis on fundamental practices and techniques used in the development of farm-crop varieties and hybrids. Opportunity for student to receive personal supervision.

POULTRY DEPARTMENT

(Poultry Building, College Poultry Farm, South Campus)

Acting Division Chairman and Head: Fuller. Staff: Dembnicki, Huston, Page, Wheeler, Williams.

The courses in the Department of Poultry Husbandry are designed to prepare the student for work in the poultry industry, its allied fields, and to pursue graduate study.

Students who major in this department receive training that will prepare them for work in the following fields:

1. Commercial poultry farming.
2. The feed industry: diet formulation and sales.

3. Experiment Station and Extension specialist.
4. The hatchery business: incubation and hatching egg production.
5. Advance study leading to the M.S. and Ph.D. in the fields of poultry nutrition, genetics, pathology, and physiology.

Adequate facilities and technical equipment are available for both teaching and research uses. At the College Farm, located on the campus, facilities include 3 modern laying houses with a capacity of approximately 8,000 laying hens and sufficient modern brooder house space for rearing this stock. Several smaller laying and brooder houses are available for conducting research with smaller numbers. Facilities also include a separate laboratory where constant temperatures can be maintained for heat tolerance studies with mature fowl; a nutrition laboratory wherein several thousand chicks can be grown to broiler age under uniform conditions for the conduct of fundamental nutrition research; and more than 100 breeding pens for teaching and research in poultry breeding and genetics.

A broiler research center is located 3 miles from Athens on the University's Whitehall Poultry Farm. This center includes facilities for growing 16,000 broilers experimentally under conditions approximating commercial broiler growing. This Farm includes facilities for brooding and rearing several thousand turkeys in confinement and approximately 350 acres of range land.

The Georgia Broiler-Breeder test brings to the campus the products of the nation's outstanding Broiler-Breeders for comparison.

The Southern Regional Poultry Breeding Project has located it's Testing Station at the University of Georgia. Here the results of research in poultry breeding at the 13 Southern Experiment Stations are brought together for evaluation and comparison. This activity focuses the attention of poultry breeders all over the country on the University of Georgia and it's poultry program.

Students majoring in poultry have opportunities for experience in poultry disease diagnosis.

The poultry industry in Georgia ranks very near the top among the agricultural enterprises which bring the greatest cash income to the farmers. The demand for well trained men in poultry husbandry far exceeds the number of graduates. The industry is growing constantly and as it grows the demand for trained men also increases. As a result the Georgia poultry industry has made available a number of scholarship programs.

Industry Scholarships. Scholarships of $200 provided by the poultry industry in Georgia are available in sufficient numbers so that high school graduates who are interested in studying Poultry Husbandry and who can meet the scholastic requirements can be accommodated.

The Durr Scholarships. Contributed by the Durr Hatchery in Atlanta, provide $1600 per year, $400 for one student in each class. These scholarships are awarded on a competitive basis and are based on the applicant's 4-H Club poultry record and his high school scholastic record.

Marbut Scholarship. A scholarship fund of $2000 per year has been provided by the Marbut Milling Company of Augusta. This will provide 4 scholarships of $500 per year which will be awarded on a competitive basis to high school graduates.

Gainesville-Midland Railroad Scholarship. $2500 per year has been provided by the Gainesville-Midland Railroad and will be divided into 5 scholarships of $500 each to be awarded to applicants from Clarke, Jackson, and Hall counties.

The Refrigerated Transport Company, Inc. and It's Operators Scholarships. A total of $6400 is provided for four, four year scholarships of $1600. Each student holding these scholarships will receive $400 a year for the four years of college. This program will begin with the Fall quarter 1955. Appli-

cations limited to the following counties: Banks, Bartow, Barrow, Carroll, Catoosa, Cherokee, Clarke, Cobb, Dawson, Douglas, Elbert, Fanning, Fayette, Floyd, Forsyth, Franklin, Fulton, Gilmer, Gordon, Gwinnett, Habersham, Hall, Harralson, Jackson, Lumpkin, Madison, Murray, Oglethorpe, Paulding, Pickens, Stevens, Walker, Walton, White and Whitfield.

Inquiries concerning these scholarships should be directed to the Chairman of the Poultry Division and full information will be provided as to the necessary steps to be taken by the applicant. Applications should be received before June 1.

REQUIREMENTS FOR A MAJOR IN POULTRY

MAJOR: Poultry 371, 373, and an additional 10 hours in Poultry ..... 20 Hours

FIRST MINOR: Any department in the College of Agriculture ..... 10 Hours

SECOND MINOR: Any department in the University ..... 10 Hours

SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 358, Zoology 390, and other 10 hours on the list of approved Science Selections ..... 25 Hours

SPECIAL REQUIREMENT: Poultry 374 ..... 5 Hours

GENERAL ELECTIVES: ..... 25 Hours

POULTRY

60. POULTRY PRODUCTION. 3 hours. *The Staff.*
An introductory course designed to provide basic information in poultry husbandry.

370. CULLING AND GRADING OF POULTRY. 3 hours. Prerequisites: Poultry 60 and junior standing or the equivalent. *Mr. Williams.*
Instructions and practice of methods of culling laying fowl, and a study of Federal and State grades of shell eggs, live and dressed poultry.

371. COMMERCIAL POULTRY MANAGEMENT. Prerequisite: Poultry 60. *Mr. Wheeler.*
Detailed study of the management practices and principles used in the business of producing eggs, broilers, and turkeys. Laboratory includes practice in poultry dressing plant operations, culling and selection, vaccination, caponization, and management of large flocks.

372. POULTRY BREEDING. Prerequisite: Plant Pathology 358 or Zoology 370. *Mr. Huston.*
A consideration of the inheritance of morphological and physiological characters, including meat and egg production. Emphasis is placed on the development of criteria for selection and the development of genetically sound poultry breeding programs.

373. (VETERINARY MEDICINE) POULTRY DISEASES AND PARASITES. Prerequisites: Poultry 60 and Bacteriology 350. *Mr. Pate.*
Common diseases and parasites of poultry, their cause, diagnosis, prevention, and treatment. Laboratory experience in routine autopsy.

374. EXPERIMENTAL METHODS. Prerequisites: Poultry 60, 373. *The Staff.*
The student is permitted to select a definite field of endeavor and must develop a project and carry it through to completion. A thesis on the project is required. The student is required to stay through holidays if necessary to look after the project.

375. POULTRY NUTRITION. Prerequisites: Poultry 60, Animal Husbandry 373, and Chemistry 260. *Mr. Fuller.*
A study of the digestive physiology and nutritive requirement of the fowl as the basis for evaluating feedstuffs and formulating practical poultry diets.

376. PROCESSING OF POULTRY AND POULTRY PRODUCTS. 3 hours. Prerequisites: Poultry 60 and junior standing or the equivalent. *Mr. Huston.*
Methods of processing shell, fluid and dried eggs, live and dressed poultry, and packaging and marketing of poultry products.

377. PHYSIOLOGY OF HATCHABILITY. Prerequisite: Zoology 26 or equivalent. *Mr. Huston.*
A lecture and problem course in incubation, considering the heredity, nutritional,

and environmental factors affecting the development and hatching of chicks. Principles of hatchery management and sanitation.

378. Anatomy of the Domestic Fowl. Prerequisite: Zoology 26 or equivalent. *Mr. Huston* and *Mr. Wheeler.*

A lecture and laboratory study of the gross and microscopic anatomy of the bird with special reference to domestic fowls.

393. Feed Manufacturing. Prerequisites: Poultry 375 or Animal Husbandry 373 or Dairy 392. *Mr. Fuller* and *Mr. White.*

Feed ingredients, feed formulation, feed mill machinery and layout, flow of materials and quality control. Will materially aid students who are preparing for a career in the feed industry.

401. Avian Physiology. Prerequisites: Chemistry 260, Zoology 390. *Mr. Wheeler.*

A study of the physiology of circulation, respiration, digestion, metabolism, and the nervous system of the fowl with emphasis on the glands of internal secretion. For advanced undergraduates, graduates, and students in veterinary medicine.

403. Studies in Poultry Nutrition. Prerequisites: Poultry 371, 373, and 375. *Mr. Fuller.*

An independent study is made of some problem dealing with the application of fundamental and nutrition findings to practical poultry feeding, either in the formulation of feeds or in methods of feeding.

404. Poultry Pathology. Prerequisites: Bacteriology 350 and Poultry 373. *The Staff.*

An intensive course in poultry disease diagnosis. Various diseases will be studied, using cases sent in from the field as materials, and the development of skill in the use of laboratory diagnostic techniques will be emphasized.

405. Advanced Poultry Breeding. Prerequisites: Plant Pathology 358 or Zoology 370, and Poultry 372. *Mr. Huston.*

The development of practical poultry breeding programs with a sound genetical background. A study is made of the mode of inheritance and relative heritability of various characteristics of economic importance and criteria for effective selection toward their improvement.

GRADUATE COURSES

802. Problems in Poultry Quality Control. Prerequisites: Poultry 371 and 372. *Mr. Huston* and *Mr. Wheeler.*

A course designed to permit the student to make an intensive study of some problem in the field of egg and poultry quality control.

803. Experimental Methods in Poultry Nutrition. Prerequisites: Agronomy 423, Chemistry 451, and Poultry 403. *Mr. Fuller.*

Studies in the application of biochemistry, physiology, statistical methods, and husbandry to experimental poultry nutrition.

805. Problems in Poultry Genetics. Prerequisites: Agronomy 423, Plant Pathology 358 or Zoology 370, Poultry 405. *Mr. Huston.*

Application of genetic theory and principles to poultry breeding. Genetics of sterility, disease resistance, and application of population methods.

806. Physiology of Avian Reproduction. Prerequisites: Poultry 372 and Zoology 390. *Mr. Huston* and *Mr. Wheeler.*

A consideration of the fundamental biological aspects of avian reproduction. Knowledge of the fundamentals and mastery of techniques will be utilized in the working of problems in reproduction in the domestic fowl.

930. Research and Thesis. 5 to 20 hours. Prerequisites: two or more graduate courses in poultry. *The Staff.*

AGRICULTURAL ENGINEERING

(Barrow Hall, South Campus)

Division Chairman and Head: Driftmier. Staff: Barnett, Brown, Carreker, Childs, Cobb, Cross, Danner, Drew, Garner, Harris, Haynes, Henderson, Hudson, Kinard, Simons, Smith, Stansell, Taylor, Thornton, Turner, White.

Agricultural Engineering is the engineering profession which serves agriculture. Working in cooperation with three major groups—industry, agri-

culture, and public service—it renders this service in five major fields—agricultural machines and power; agricultural industries and services; rural housing, farm structures, and utilities; rural electrification; and soil and water conservation, including drainage, irrigation and land development.

The courses comprising the four-year professional curriculum—Bachelor of Science in Agricultural Engineering—provide well balanced training in the fundamentals of science, engineering, agriculture, the technical fields of agricultural engineering and in the humanistic and social sciences. The department also offers graduate study leading to the degree Master of Science. This graduate program, in addition to advanced courses in science and engineering, places special emphasis upon the methods and practices of research —both basic and applied.

The opportunity to apply engineering principles to agriculture is unlimited. Occupations open to graduates include teaching, research, and extension work with colleges and federal agencies; engineering work in soil conservation; advertising, sales, production, design, and service work with industry; engineering management and development in rural electrification and the mechanical processing of farm products; state and federal public health engineering; appraisal and consultation; and ownership and management of private enterprises.

CURRICULUM IN AGRICULTURAL ENGINEERING

Freshman

Fall	Hours	Winter	Hours	Spring	Hours
Engr. Drawing A.En. 4	3	Engr. Drawing, A.En. 5	3	Desc. Geom., A.En. 8	3
Inorg. Chem., Chem. 21	5	Inor. Chem., Chem. 22	5	Physics 20	5
Composition, Eng. 2x	5	Composition, Eng. 2y	5	Composition, Eng. 6	5
Algebra, Math 101x	5	Trigonometry, Math. 101y	5	Anal. Geom., Math 110	5
Mil. Science 1 or Air Science 5	2	Mil. Science or Air Science	2	Mil. Science or Air Science	1
Physical Education	0	Physical Education	0	Physical Education	0
	20		20		19

Sophomore

Fall		Winter		Spring	
Surveying, A.En. 11	5	Soils, Agron. 10	5	Crops, Agron. 1	3
Math 354	5	Calculus, Math. 355	5	An. Hus. 1 or Dairy 3	3
Physics 27	5	Physics 28	5	Physics 329	5
Mil. Science 2 or Air Science 6	2	Mil. Science or Air Science	2	Rural Ec., Ag. Ec. 10	3
Physical Education	0	Physical Education	0	Engr. Shop, A.En. 2	3
				Mil. Science or Air Science	1
				Physical Education	0
	17		17		18

Junior

Fall		Winter		Spring	
Mechanics, A.En. 250	5	Dynamics, A.En. 251	5	Stren. of Mat. A.En. 255	5
Thermo., A.En. 273	5	Heat & Refr., A.En. 274	5	Heat Processes, A.En. 275	5
Mat. of Const., A.En. 253	5	Hydraulics, A.En. 256	5	Soil Physics, Agy. 460	5
Elective (non-technical)	3	Elective (non-technical)	3	Elective (non-technical)	3
	18		18		18

SENIOR

FALL		WINTER		SPRING	
D. C. Mach., A.En. 284	5	A. C. Mach., A.En. 286	5	Rural Elect., A.En. 289	5
Soil & Water Cons., A.En. 225	5	Farm Motors, A.En. 262	5	Engr. Org., A.En. 291	3
Farm Mach., A.En. 261	5	Farm Structures, A.En. 271	5	Sanit. & Water Sup., A.En. 272	2
Elective (non-technical)	3	Elective (non-technical)	3	Prin. of Ag. Ecn. Ag Ec. 458	5
				Elective (non-technical)	3
	18		18		18

Total requirements, 209 hours, exclusive of the required courses in Military Science 1-2 or Air Science 5-6 and Physical Education 1-2.

AGRICULTURAL ENGINEERING

2. ENGINEERING SHOP. 3 hours. Two three-hour laboratory periods only. Prerequisite: Agricultural Engineering 8. *Mr. Harris.*

Machine tool work, oxy-acetylene and electric welding, carpentry. For B.S.A.E. students only.

4-5. ENGINEERING DRAWING. 6 hours (3 hours a quarter). Three laboratory periods only. *Mr. Cross.*

Use of drawing instruments, lettering, detailing, orthographic and pictorial methods of presentation.

6. TOPOGRAPHICAL DRAWING. 3 hours. Two three-hour laboratory periods only. *Mr. Cross.*

Use of drawing instruments, lettering, sketching. symbols, charts, contours, topographic maps. For B.S.A. and B.S.F. students.

8. DESCRIPTIVE GEOMETRY. 3 hours. Three laboratory periods only. Prerequisite: Agricultural Engineering 5. *Mr. Cross.*

Representation of geometrical magnitudes by means of points, lines, planes and solids and their application in the solution of problems.

11. SURVEYING. Three laboratory periods. Prerequisite: Mathematics 101y. *Mr. Brown, Mr. Cross,* and *Mr. Drew.*

The use of surveying methods, instruments and computation related to field problems, in taping, leveling, directions, land surveying, curves, and topographic surveying.

20. SOIL AND WATER CONSERVATION. 3 hours. One laboratory period. *Mr. Cobb.*

Principles and methods of soil and water conservation with special emphasis given to terracing and engineering practices. For B.S.A. students.

60. FARM POWER AND MACHINERY. 3 hours. One laboratory period. *Mr. Drew.*

The operation, care, repair, and selection of farm implements and tractors commonly used on farms. For B.S.A. students.

70. FARM BUILDINGS AND EQUIPMENT. 3 hours. *Mr. Cross* and *Mr. Harris.*

A study of farm buildings and equipment with special regard to requirements, economy, convenience, sanitation, and materials. For B.S.A. students.

203. FARM SHOP. 6 hours. Four three-hour laboratory periods only. Prerequisite: Mathematics 101x. *Mr. Harris.*

Farm construction methods—working plans, carpentry, concrete, painting, oxy-acetylene and electric welding, metal work, and tool conditioning. For Agricultural Education majors.

205. ELEMENTS OF REFRIGERATION. 3 hours. *Mr. Garner.*

Basic principles of refrigeration, refrigeration systems, controls, insulation, and load calculations. For B.S.A. students.

206. PRINCIPLES OF HEAT ENGINEERING. 3 hours. *Mr. Garner.*

Production, distribution and use of steam; characteristics and selection of systems, allied apparatus, and equipment. For B.S.A. students.

224. DRAINAGE AND IRRIGATION. 3 hours. One laboratory period. Prerequisite: Agricultural Engineering 11. *Mr. Cobb.*

Principles and methods of farm drainage, irrigation, and land development. For Soil Conservation majors.

225. Soil and Water Conservation. One laboratry period. Prerequisite: Agricultural Engineering 256. *Mr. Cobb.*
Engineering aspects of soil erosion and its control, principles, methods and design of drainage and irrigation systems.

226. Conservation Practices. 3 hours. One laboratory period. Prerequisite: Agricultural Engineering 20. *Mr. Cobb.*
The planning and design of water disposal systems and the study of research results as applied to conservation farming. For Soil Conservation majors.

250. Engineering Mechanics. Prerequisites: Mathematics 355 and Physics 27. *Mr. Brown.*
A study of balanced force systems, resultants, conditions of equilibrium, trusses, friction, and centroids.

251. Engineering Mechanics. Prerequisites: Agricultural Engineering 250. *Mr. Brown.*
A study of bodies in motion; unbalanced force systems resulting in translation, rotation, and plane motion; moments of inertia; work and energy; and free vibrations.

253. Materials of Construction. Prerequisite: Agricultural Engineering 250. *Mr. Hudson.*
Manufacture, properties, uses, and application of materials for engineering construction.

255. Strength of Materials. Prerequisite: Agricultural Engineering 251. *Mr. Hudson.*
Elements of stress analysis, resistance, and designs as applied to engineering materials and structures.

256. Hydraulics. Prerequisite: Mathematics 355. *Mr. Cobb.*
Fundamental principles of hydrostatics and hydrodynamics applied to the flow of water through orifices, pipes, and channels, and over wiers.

261. Farm Machinery. One laboratory period. Prerequisite: Agricultural Engineering 250. *Mr. Drew.*
Development, design, selection, and utilization of farm machinery for all forms of farm power.

262. Farm Motors. One laboratory period. Prerequisite: Agricultural Engineering 273. *Mr. Drew.*
Thermodynamic principles, design, operation, rating, testing, and application of tractors, trucks, and engines for agricultural uses.

271. Farm Structures. Three laboratory periods. Prerequisites: Agricultural Engineering 253 and 255. *Mr. Hudson.*
Design, details of construction, valuation and appraisal, specifications, bills of materials, and cost estimates.

272. Farm Sanitation and Water Supply. 2 hours. Prerequisite: Agricultural Engineering 256. *Mr. Hudson.*
Development, storage, distribution, and purification of rural water supplies, and the collection and disposal of farm and rural wastes.

273. Thermodynamics. Prerequisites: Mathematics 354 and Physics 28. *Mr. Drew.*
The properties and fundamental equations of gases, vapor energy transformations, heat cycles, compressors and engines.

274. Heating and Refrigeration. Prerequisite: Agricultural Engineering 273. *Mr. Drew.*
Heat transfer, heating, cooling, ventilation, refrigeration.

275. Heat Processes and Equipment. Prerequisite: Agricultural Engineering 274. *Mr. Kinard.*
Design and selection of equipment for processing agricultural products.

280. Farm Electrification. 3 hours. Prerequisite: Physics 20. *Mr. Brown* and *Mr. Kinard.*
Applications of electricity to agriculture; wiring systems for farm buildings; selecting, using, and controlling electrically operated equipment in farming operations. For B.S.A. students.

284. Direct Current Machinery. One three-hour laboratory period. Prerequisite: Physics 329. *Mr. Brown.*
Basic electrical principles, circuits, controls, and measurements. Emphasis on the operating principles and characteristics of D.C. generators and motors.

286. Alternating Current Machinery. One three-hour laboratory period. Prerequisite: Agricultural Engineering 284. *Mr. Brown.*

Principles of alternating current circuits and machines. Emphasis on the operating principles and characteristics of transformers, alternators, three-phase and single-phase motors.

288. Rural Electrication. One laboratory period. Prerequisite: Agricultural Engineering 286. *Mr. Brown* and *Mr. Kinard.*

A study of the problems involved in the distribution and application of electricity to agriculture.

291. Engineering Organization and Administration. 3 hours. Prerequisites: Any two senior courses in Applied Agricultural Engineering. *Mr. Hudson.*

Professional and public relations; ethics; federal, state and industrial organization, procedures, contractural relations, analysis of engineering projects.

GRADUATE COURSES

701. Agricultural Engineering Applications. Prerequisite: Agricultural Engineering 203, and Education 336, or Plant Pathology 353 and Animal Husbandry 373, or equivalent. (For Agricultural Education students only). *Mr. Harris.*

The application of engineering techniques to agricultural production and utilization practices.

702. Advanced Engineering Applications. Prerequisite: Agricultural Engineering 701. (For Agricultural Education students onyl). *Mr. Harris.*

Implementation and continuation of farm shop improvement plans developed in A.En. 701. At least 40 hours will be devoted to group meetings dealing with improvement practices; the remainder of time will be devoted to improvment of the registrant's shop under direct supervision of the instructor.

801-802. Special Problems in Agricultural Engineering. Prerequisite: Graduate status in Agricultural Engineering. *Mr. Kinard* and *Staff.*

Selected graduate problems designed to familiarize the student with research methods.

804. Special Electrical Problems. Prerequisite: Agricultural Engineering 289 or equivalent. *Mr. Brown* and *Mr. Kinard.*

Problems dealing with electrical circuits, apparatus, and systems associated with electricity in agriculture.

805. Agricultural Structures Design. Prerequisite: Agricultural Engineering 271 and 274 or equivalent. *Mr. Driftmier* and *Mr. Hudson.*

Insulation, ventilation, heat and vapor relationships; structural theory and design.

806. Advanced Farm Power and Equipment. Prerequisite: Agricultural Engineering 261, 262, and 273, or equivalent. *Mr. Drew* and *Mr. Driftmier.*

Special problems dealing with design, development, and performance testing of agricultural tractors and machines.

807. Soil and Water Conservation. Prerequisite: Agricultural Engineering 225 and 256, or equivalent. *Mr. Cobb.*

Advanced studies of water control and utilization through drainage, irrigation, and conservation engineering.

811. Process Engineering. Prerequisite: Agricultural Engineering 273 and 275 or equivalent. *Mr. White* and *Mr. Garner.*

A study of the engineering aspects of agricultural processing with emphasis on plant layout, equipment, process control, and materials handling.

813. Instrumentation in Agricultural Engineering Research. Prerequisite: Graduate status in Agricultural Engineering. *Mr. Kinard.*

The principles and applications of measuring instruments and devices used in research.

840. Experimental Engineering. Prerequisites: Agricultural Engineering 286 and Physics 329 or equivalent. *Mr. Kinard* and *the Staff.*

Organization, planning, and execution of engineering research. Construction, adjustment, application, and use of measuring instruments and devices.

930. Thesis. 5 to 50 hours.

DEPARTMENT OF LANDSCAPE ARCHITECTURE

(Landscape Architecture Building, North Campus)

Division Chairman and Head: Owens. Staff: Martin, Wigginton.

Landscape Architecture is defined as the art of arranging land and the objects upon it for human use and enjoyment. The curriculum in landscape architecture leading to the degree of Bachelor of Landscape Architecture is a professional program based on the requirements of, and approved as meeting the standards set by the American Society of Landscape Architects. Other non-professional concentrations are offered in the last two years in Recreational Planning and in Garden Design leading to the degree of Bachelor of Science in Landscape Architecture.

The University of Georgia is especially well suited for teaching landscape architecture because of the wide variety of available plant material, a long growing season, and its accessibility to numerous landscape and architectural developments in the Southeast.

A series of formal and naturalistic developments, known as the Founders Memorial Garden, surrounds the Landscape Architecture Building. This affords excellent laboratory facilities for the students.

TRIPS

Two trips of a week's extent are required to be taken on alternate years by junior and senior landscape architecture majors to Flat Rock and Asheville, N. C., Smoky Mountain National Park, Thomasville, Georgia, and points in Florida for purposes of study and observation. Two week-end trips will be made to Augusta, Atlanta, and LaGrange, Georgia, and to Aiken and Charleston, South Carolina. Each trip is made at the expense of the student.

PROGRAMS OF INSTRUCTION

1. General Program in Landscape Architecture. This program, leading to the degree of Bachelor of Landscape Architecture, is intended to fit students for the professional practice of landscape architecture.

2. Program in Recreational Planning. This is a program leading to the degree of Bachelor of Science in Landscape Architecture devoted particularly to the design and management of large recreational areas and forest preserves. Following the close of the junior year a summer camp covering a period of ten weeks is required as a prerequisite for graduation.

3. Program in Garden Design. This program for the degree of Bachelor of Science in Landscape Architecture is set up to give intensive study of the problems of design, management, and maintenance of flower gardens, home grounds, and estates.

THE FOLLOWING CORE CURRICULUM IS REQUIRED OF ALL STUDENTS MAJORING IN LANDSCAPE ARCHITECTURE:

Freshman and Sophomore Years

	Hours		Hours
English 2 x-y	10	English 22x	5
Math. 101y	5	Botany 21-22	10
Land. Arch. 55, 56	10	Horticulture 1	3
Land. Arch. 72	5	Land. Arch. 12-13-14	15
Physical Science 1 and Chemistry 21 or Geology 4	10	Agricultural Engineering 11	5
Art 20	5	Land. Arch. 102	5
Land. Arch. 101	5	Military Science 2 or Air Science 6	5
Military Science 1 or Air Science 5	5	Physical Education 2 (for men) or Physical Education 2 (for women)	5
Physical Education 1 (for men) or Physical Education 1 (for women)	5		
	55		53

BACHELOR OF LANDSCAPE ARCHITECTURE

1. GENERAL PROGRAM

Summer Term

	Hours
History 110 x-y	10
Political Science 1	5

Practical Experience

1 summer	1

Field Trips

4 at ½ hr. each	2

Junior

Land. Arch. 315-316-317	15
Land. Arch. 303	5
Art 221 or 241	5
Land. Arch 350-357	10
Land. Arch. 351-352	10
	45

Senior

	Hours
Land. Arch. 318-319-355	15
Land. Arch. 354	5
Land. Arch. 360	5
Land. Arch. 358	5
Land. Arch. 353	5
Art 241 or 221	5
Land. Arch. 340	3
	43

BACHELOR OF SCIENCE IN LANDSCAPE ARCHITECTURE

2. RECREATIONAL PLANNING

Junior

	Hours
History 110 x-y	10
Political Science 1	5
Forestry 83-84	6
Forestry 356	5
Land. Arch. 315-316-317	15
Land. Arch 350	5
	46

Field Trips

4 at ½ hr. each	2

Senior

	Hours
Land. Arch. 351-352	10
Land. Arch. 353	5
Land. Arch. 354	5
Land. Arch. 355	5
Land. Arch. 357-358	10
Land. Arch. 390	5
	40

Summer Camp

Forestry 30	15

3. GARDEN DESIGN

Junior

	Hours
History 110 x-y	10
Land. Arch. 315-316	10
Land. Arch. 321	3
Land. Arch. 351	5
Land. Arch. 350	5
Art	5
Electives or Advance Military	8
Practical Experience 1 Summer	1
	47

Senior

	Hours
Land. Arch. 352	5
Land. Arch. 354-364	10
Land. Arch. 355	5
Art 389 or 242	5
Art 390 or 391	5
Electives or Advance Military	10
Political Science 1	5
	45

Field Trips

4 at ½ hr. each	2

LANDSCAPE ARCHITECTURE

12. Introductory Landscape Design. Five laboratory periods. *Mr. Wigginton.*

Application of theories of design to small properties. Introduction to rendering.

13. Introductory Landscape Design. Five laboratory periods. *The Staff.*

A continuation of the study of small properties introducing elements of grading and drainage as they influence design.

14. Introductory Landscape Design. Five laboratory periods. *Mr. Wigginton.*

Continuing the study of small properties with an analysis of the design relationship of indoor and outdoor aspects of contemporary living.

55. Architectural Drafting. Five laboratory periods. *The Staff.*

A condensed course in principles of orthographic projection, isometric and perspective. Emphasis is placed on use of instruments, lettering and problems in design.

56. Architectural Projections. Five laboratory periods. Prerequisite: Landscape Architecture 55. *Mr. Wigginton.*

Shades and shadows and presentation drawings in isometric projection and perspective.

72. History of Landscape Design. Five lecture periods. *Mr. Owens.*

Deals with the gradual development of the art of landscape design from the earliest efforts to the present day, laying special stress upon the transition of styles and the development of the naturalistic type.

101. Fundamentals of Architecture. Five laboratory periods. *The Staff.*

Lectures on organization of living functions and their expression in plan and elevation together with studies in orientation and site planning. Exercises in freehand three dimensional presentation.

102. Introductory Architectural Design. Five laboratory periods. *The Staff.*

Study of small buildings commonly dealt with in landscape design and their appropriate expression in wood frame and masonry construction. Elementary problems in plan elevation and section.

303. Architectural Design. Five laboratory periods. *The Staff.*

Continuation of design problems with analysis of larger architectural plans, especially organization of public buildings in relation to landscape factors of site and orientation.

313. Landscape Design. Five laboratory periods. Especially designed for students not majoring in landscape architecture. *Mr. Wigginton.*

Problems in design involving the designing and rendering of plans for gardens, residential properties, grounds of public buildings and parks.

315. Intermediate Landscape Design. Four laboratory periods and one lecture. Prerequisite: Landscape Architecture 12. *Mr. Owens.*

Application of design theory to residential properties. Original problems in design, rendering, and model making.

316. Intermediate Landscape Design. Four laboratory periods and one lecture. Prerequisite: Landscape Architecture 315. *Mr. Owens.*

Solution of original problems in public and semi-public properties and recreational facilities.

317. Intermediate Landscape Design. Four laboratory periods and one lecture. Prerequisite: Landscape Architecture 316. *Mr. Wigginton.*

Solution of original problems in public and semi-public properties such as cemeteries, school grounds, subdivisions, and golf courses.

318. Advanced Landscape Design. Four laboratory periods and one lecture. Prerequisite: Landscape Architecture 317. *Mr. Wigginton.*

A continuation of intermediate landscape design involving complex problems.

319. Advanced Landscape Design. Five laboratory periods. *The Staff.*

A continuation of Landscape Architecture 318 with original design problems in large landscape developments.

321. The Maintenance of Ornamental Plantings and Landscape Management. (Horticulture). 3 hours. Prerequisite: Horticulture 1. *Mr. Johnstone* and *Mr. Wigginton.*

Formulation and study of a work program which considers those essential operations contributing to the successful landscape management of grounds. Methods of maintaining lawns, hedges, perennial and annual beds and borders, walks, pools, trees, specimen plants and other ornamental plantings.

340. Professional Practice in Landscape Architecture. 3 hours. Three lectures. *Mr. Owens.*

Professional practice and ethics; contracts, reports and specifications.

350. Elementary Construction. *Mr. Wigginton.*

Materials of landscape construction, their characteristics and uses; elementary grading plans and simple construction details.

351. Plant Materials. *Mr. Owens.*
A study of plant materials used in landscape architecture, dealing with trees and shrubs.

352. Plant Materials. Three laboratory periods. *Mr. Owens.*
A study of plant materials used in landscape architecture, dealing with flowers, perennials, and grasses.

353. City Planning. Three laboratory periods and two lectures. *The Staff.*
Background course in city planning, covering the history and bibliography of the subject, and introducing the student to modern trends in planning. Designed as a foundation for further study of professional planning, the course is also an elective intended to provide the layman with an informed understanding of civic problems.

354. Planting Design. Five lecture or laboratory periods. Prerequisites: Landscape Architecture 317, 351, and 352. *Mr. Owens.*
Deals with problems which aim to train the student to produce with plants and other landscape materials practical and aesthetically effective results.

355. Landscape Thesis. Five lectures or laboratory periods. Prerequisite: Landscape Architecture 353. *Mr. Owens* and *Staff.*
A problem in designing a property will be assigned; completed plans including general plan, staking and grading plans, construction and planting plans. Specifications and estimates will be required. This course will serve as a comprehensive examination.

357. Landscape Engineering. Four laboratory periods and one lecture. Prerequisites: Agricultural Engineering 11, Mathematics 101y, or equivalent. *The Staff.*
Design, construction, and mathematical alignment of driveways and park roads; calculation of quantities and grading plans.

358. Landscape Construction. *Mr. Wigginton.*
Design of constructive problems, master plans and details, and estimating quantities.

360. History of Architecture. *The Staff.*
Principal periods of architectural history. Acquaints departmental majors with architectural developments which influenced landscape design, but is also open to other students and laymen interested in the backgrounds of the various "styles" in buildings and furnishings.

364. Planting Design. One lecture and four laboratory periods. Prerequisite: Landscape Architecture 354. *Mr. Owens.*
A continuation of Landscape Architecture 354. Emphasis is placed on the design and planting of perennial gardens.

370. History and Appreciation of Landscape Architecture. Five lectures. Especially designed as an elective for students not majoring in landscape architecture. *Mr. Owens.*
Elements of landscape architecture. The history of gardening, with particular attention devoted to its development in the South, and the application of landscape design to outdoor areas, including the small home, park, cemetery, farmstead, estate.

390. Problems in Recreational Planning. Four laboratories and one lecture. *The Staff.*
The study and formulation of master, project, and unit recreational plans; the design and construction of details relating thereto.

GRADUATE COURSES

701 702, 703, 704. Special Problems in Landscape Architecture. 5 to 20 hours. Prerequisite: a minimum of 10 quarter hours of senior division work in design, and consent of instructor. *The Staff.*
Intensive studies in special aspects of Landscape Architecture designed to explore applications in such fields as park and recreation developments, planting design, theory and history, landscape construction, rural and urban land use studies and development. The courses will consist primarily of readings and seminar discussions with projects in drawing and model building. The assigned projects will be adjusted to the needs and interests of the individual student.

THE GEORGE FOSTER PEABODY SCHOOL OF FORESTRY

DONALD JAMES WEDDELL, B.S.F., M.S., *Dean*

HISTORY

The School of Forestry was first established early in 1906 through the interest and generosity of Mr. George Foster Peabody who endowed it for a three-year period. It is the oldest forestry school in the South and one of the oldest in the country. In 1908, the School became a Division of the College of Agriculture and remained so for about twenty-seven years. In June 1935, by action of the Board of Regents of the University System, the George Foster Peabody School of Forestry was reestablished.

The many graduates of the School have played a very important part in the development of the forestry program in the South, serving in all phases of forestry work.

BUILDINGS, EQUIPMENT, AND FOREST PROPERTIES

The School is ideally situated for its important role as a regional school. Its location in the State makes it not only easily accessible to residents of Georgia but to those of neighboring states. It is also well located as to accessibility to the three major forest regions of the Southeastern United States: Mountain, Piedmont, and Coastal Plain.

The School is housed in its own modern building. The three-storied main building contains classrooms, general and research laboratories, a library containing 15,000 volumes and a reading room with the latest forestry periodicals available, a large auditorium, photographic darkroom, and offices.

Two large wings are attached to the main building, one containing additional laboratories and staff offices, the other containing a complete sawmill, planer, edger, naval stores gum cleaning plant and pilot still, experimental pressure treating cylinder, wood strength testing equipment, and other wood utilization tools. A modern dry kiln is located adjacent to the wing containing utilization equipment.

Located in one of the wings is the office of the State Commission of Forestry's local county fire protection unit with its two-way radio facilities. The fire tower which covers most of the county is located on one of the School forests in sight of the main Forestry building.

Ample surveying, mapping, cruising, and other forestry equipment is owned by the School. Special research equipment for student and faculty use is also available. Additional research equipment and that required for advancement in classroom techniques is purchased as the need arises.

The forest properties owned by the University are managed by the School of Forestry. Two of these are located on land adjacent to the campus. The Oconee Forest, a typical Piedmont forest area of 120 acres, is used for laboratory work in silviculture, mensuration, and utilization. The Denmark Forest of 145 acres, adjoining the Oconee Forest, is used for experimental work in forest plantings. Whitehall Forest, located approximately five miles from the campus and comprising some 750 acres, was deeded to the University by the Resettlement Administration. A series of planting demonstrations has been established on this forest. The United States Department of Agriculture, Division of Forest Pathology, established a number of research plantings on this area. The Watson Springs Forest, given to the University by Colonel J. D. Watson, is located in Green County, about 25 miles from

Athens. This forest contains some 600 acres. The Hardman Memorial Forest of 500 acres is located 12 miles north of Athens in Jackson County and was deeded to the University as a memorial to the late Governor Hardman. Problems in planting and in the study of species not commonly planted are being carried out on this forest.

The forest tree nursery located in Oconee Forest is the oldest public owned nursery in Georgia and probably the oldest in the South. It has recently been reactivated in order to carry out a research program in cooperation with the Georgia Foresty Commission.

The Athens Work Center of the Southeastern Forest Experiment Station U. S. Forest Service is headquartered in the Forestry Building. A branch of this work center is located at Macon, Georgia, close to the Hitchiti Experimental Forest. The resident staff at Athens numbers 11 specialists in various phases of Forestry. Approximately the same number are headquartered at Macon. Research projects are carried on at both places in cooperation with the School of Forestry and the Georgia State Commission of Forestry. These include studies on the genetics of southern pines, the management of pines and hardwoods, the utilization of hardwoods, and investigations on diseases and insect pests of forest trees.

CONCENTRATION IN WILDLIFE MANAGEMENT

A concentration in the field of Wildlife Management was offered for the first time during the year 1951-52. This program, leading to the degree of Bachelor of Science in Forestry, Major in Wildlife Management, gives the student the necessary training in wildlife management as well as the fundamental work in forestry.

FIELD WORK IN FORESTRY

Field work is a very important phase of a well-rounded forestry education. In addition to field laboratories in connection with the various courses taught at the University, several field trips to other sections of the State are required. Also as a part of the regular program of work, a camp is held during the summer quarter following the sophomore year.

DEGREES OFFERED BY SCHOOL OF FORESTRY

The School of Forestry offers the degrees of Bachelor of Science in Forestry and the Bachelor of Science in Forestry, Major in Wildlife Management. Through the Graduate School the degrees of Master of Science and Master of Forestry are offered.

Students planning to major in Forestry should enter at the beginning of the freshman year, or not later than the beginning of the sophomore year. Because the courses are highly specialized, students entering as juniors have difficulty completing degree requirements in less than three additional years.

SPECIAL SCHOLARSHIP REQUIREMENTS

In addition to the general University requirements relative to scholarship, the following requirement must be met by all Forestry students:

"Any student registered in the junior and senior class of the School of Forestry who, at the end of the school year, does not have a weighted average of 70 or more in all work taken since entering the School of Forestry, will not be entitled to continue in attendance in the School except by special permission of the forestry faculty. Such permission will be granted only in exceptional cases."

At least a grade of C must be earned, by School of Forestry students, in all required *forestry courses* and approved substitutes, before credit for the course will be given toward graduation.

FEES AND EXPENSES

Certain courses require breakage deposits varying from $10 to $25 per year. The amount necessary for books will vary from $15 to $30 per year.

A fee of $10 is required for Forestry 300 and Forestry 513. Field trips will form a part of certain courses in the junior and senior years, and the expenses of these trips, usually about $25, must be borne by the student.

ORGANIZATIONS

Xi Sigma Pi, the national honorary forestry fraternity, has an active chapter in the School of Forestry. The purpose of this fraternity is to honor those students who do outstanding scholastic work, to promote fraternal relations among earnest workers, and to work for the upbuilding of the profession of forestry.

Alpha Zeta, a national honorary fraternity in agriculture and allied fields, is open to students in the School of Forestry.

The Forestry Club, open to all students in the School, sponsors biweekly programs of special interest to the student body. The club also sponsors the annual field day, the senior banquet, and the *Cypress Knee*, the Forestry School's annual publication.

SCHOLARSHIPS AND LOAN FUNDS

The Earl Jenkins Memorial Award is given to a member of the junior class in Forestry who excels in scholarship, character, and interest in forestry ideals. This award honors the memory of Earl Jenkins, class of 1942, who was killed in action in World War II, and is given by his sister.

The Xi Sigma Pi-Forestry Club Award is given to the outstanding freshman.

The Dupree Barrett Loan Fund, given in memory of Dupree Barrett, for many years Extension Forester in Georgia, is open to junior or senior students in the School of Forestry.

The Maxwell B. Thurmond Loan Fund, given in memory of Lt. Col. Maxwell B. Thurmond, class of 1941, is open to students in the School of Forestry.

The Union Bag and Paper Corporation annually awards three scholarships to Georgia boys; one to an outstanding 4-H club member, one to an outstanding F.F.A. member, and the third to a student not affiliated with either organization. Each scholarship pays $600.00, plus tuition, annually. The winners are selected by a committee and are judged on scholarship, leadership, personality and interest in forestry.

The St. Regis Company awards an annual scholarship to an outstanding Junior in the School of Forestry. The scholarship, amounting to $800, is renewable for the Senior year. It is based on scholarship, leadership, and interest in the forestry profession.

Gair Woodlands Corporation of Savannah awards a $500 scholarship to an incoming freshman, the recipient to come from the wood producing area of that company. The student finally selected is carefully screened by two different committees, selection being based on scholarship, leadership, and personality.

The Rayonier Foundation awards a scholarship of $500 to the outstanding senior in the School. The selection is made by the staff of the School and is based on scholarship, leadership, and personality.

REQUIREMENTS FOR GRADUATION

A total of 207 hours, in addition to Military or Air Science and Physical Education, is required for graduation in either of the curricula.

REQUIRED CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN FORESTRY

Freshman and Sophomore Years

	Hours
English 2 x-y	10
Math. 101 x-y (Algebra and Trigonometry)	10
Geography 121	5
Ag. Engineering 6 (Topographic drawing)	2*
Political Science 1 or American History	5
Botany 21-22 or 10-11 (General Botany)	10
Physics 20 or Physical Science 1	5
Forestry 20 (Introductory Forestry)	1
Military Science 1 or Air Science 5	5
Physical Education 1	0
	53

	Hours
Plant Pathology 354 (Forest Pathology)	5
Chemistry 21-22	10
Forestry 83 (Dendrology)	3
Forestry 84 (Dendrology)	3
Agronomy 7 (Forest Soils)	5
Ag. Engineering 11 (Surveying)	5
Forestry 356 (Silvics)	5
Economics 5x (Economics)	5
Elective	5
Military Science 2 or Air Science 6	5
Physical Education 2	0
	51

	Hours
Forestry 300 (Summer Camp)	15

Junior Year

	Hours
Entomology 375 (Forest Insects)	5
Forsetry 307 (Protection)	3
Forestry 340 (Mensuration)	3
Forestry 343 (Mensuration)	5
Forestry 357 (Practice of Silviculture)	5
Forestry 358 (Reforestation Practices)	3
Forestry 359 (Regional Silviculture)	3
Forestry 370 (Wood Anatomy)	3
Forestry 371 (Forest Products)	3
Forestry 390 (Forest Finance)	3
Forestry 510 (Forest Policy)	3
Electives	10
	49

Senior Year

	Hours
Geography 420 (Photogrammetry)	5
Forestry 310 (Informational Methods in Forestry)	3
Forestry 377 (Logging)	3
Forestry 378 (Lumbering)	3
Forestry 320 (Forest Range Mgt)	3
Forestry 391 (Forest Economics)	5
Forestry 505 (Naval Stores)	3
Forestry 506 (Utilization Field Trip)	3
Forestry 511, 512, 513 (Forest Management)	12
Electives	9
	49

*If a student has completed a satisfactory course in Mechanical Drawing, this course will not be required. The total hours for graduation must be satisfied.

REQUIRED CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN FOESTRY, MAJOR IN WILDLIFE MANAGEMENT

Freshman and Sophomore Years

	Hours		Hours
English 2 x-y	10	Chemistry 21-22 (Inorganic)	10
Mathematics 101 x-y	10	Forestry 83 (Dendrology)	3
Geography 121	5	Forestry 84 (Dendrology)	3
Ag. Engineering 6 (Topographic Drawing)	2	Ag. Engineering 20 (Soil & Water Conservation)	3
Political Science 1 (or American History)	5	Ag. Engineering 11 (Surveying)	5
Botany 21-22 or 10-11	10	Botany 375 (Ecology)	5
Physics 20	5	Economics 5x	5
Forestry 20 (Introductory Forestry)	1	Zoology 26 (Vert. Zoology)	5
Military Science 1 or Air Science 5	5	Forestry 356 (Silvics)	5
Physical Education 1	0	Electives	5
		Military Science 2 or Air Science 6	5
		Physical Education 2	0
	53		54

Summer Camp

Forestry 300 (Summer Camp) 15 hours

Junior Year

	Hours
Forest Entomology	5
Forestry 307 (Protection)	3
Forestry 340 (Mensuration)	3
Forestry 357 (Silviculture)	5
Forestry 370 (Wood Anatomy)	3
Zoology 353 (Animal Ecology)	5
Forestry 390 (Forest Finance)	3
Zoology 403 (Mammalogy) or Zoology 381 (Ornithology)	5
Forestry 343 (Mensuration)	5
Electives	10
	47

Senior Year

	Hours
Forestry 310 (Informational Methods in Forestry)	3
Forestry 320 (Range Management)	3
Forestry 391 (Forest Economy)	5
Forestry 371 (Forest Products)	3
Forestry 377 (Logging)	3
Forestry 385 (Game Management)	3
Forestry 386 (Wildlife Management Techniques)	3
Forestry 505 (Naval Stores)	3
Forestry 511, 512, 513 (Management)	12
Geography 420 (Photogrammetry)	5
Electives	5
	48

Suggested Electives

Botany 420
Forestry 358-378
Zoology 381-403-405
Agronomy 7

COURSES OFFERED IN SCHOOL OF FORESTRY

(All classes except Summer Camp meet in the Forestry Building.)
The University reserves the right to withdraw any course for which the registration is not sufficient and to offer courses not here listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated, all courses will meet five hours a week and carry five hours credit.

2. Farm Forestry. 3 hours. *Mr. Parker.*
A general course for agricultural and vocational agricultural students dealing with forestry from the farmer's standpoint.

20. Introductory Forestry. 1 hour. *Mr. Weddell.*
An introductory course designed to acquaint the forestry student with the field of forestry.

83. Regional Dendrology. 3 hours. One lecture and two laboratory periods. Prerequisites: 10 hours of Botany. *Mr. Bishop.*
A course dealing with the identification, classification, silvical requirements and distribution of the more important forest trees of the hardwood (Angiosperms) group.

84. Regional Dendrology. 3 hours. One lecture and two laboratory periods. Prerequisites: 10 hours of Botany. *Mr. Bishop.*
A course dealing with the identification, classification, silvical requirements and distribution of the more important forest trees of the coniferous (Gymnosperms) group.

300. Summer Camp. 15 hours. The summer quarter following the sophomore year. Eight hours a day. Prerequisites: Agricultural Engineering 11 and Forestry 83-84. Fee $10. *The Camp Staff.*
Field practice in general forestry. Emphasis will be placed on surveying, mensuration, and type mapping.

303. Dry Kilning and Wood Preservation. 3 hours. Prerequisite: Forestry 371. *Mr. Grant.*
The air drying, kiln drying, and preservative treatment of timber.

307. Forest Fire Protection. 3 hours. Prerequisite: Forestry 356. *Mr. Bishop.*
A study of the causes, effects and methods for controlling wild forest fires and of the use of controlled fire in managing a forest property.

310. Informational Methods in Forestry. 3 hours. Prerequisites: Forestry 307 and Forestry 359. *Mr. Bishop.*
The various means and procedures for disseminating technical and non-technical forestry information to the public.

320. Forest Range Management. 3 hours. Prerequisites: Botany 22 and Forestry 356. *Mr. Jackson.*
A study of the principles of forest range management involving the use of forest forage as a resource; the improvement of forest range; study of forest range plants.

330. Forestry Problems. *The Staff.*
Class or individual instruction and guidance. Assigned or selected problems in the field of forestry. A complete report of work will be required.

340. Forest Mensuration. 3 hours. Three 2-hour laboratory-lecture periods. Prerequisites: Mathematics 101y. *Mr. Parker.*
Measurement of forest products; determination of volume in the tree and in the stand; growth and yield of trees and stands.

343. Forest Mensuration. Three lectures and two laboratory periods. Prerequisite: Forestry 340. *Mr. Worrell.*
Sampling methods in forestry; graphic and statistical analysis of volume, growth, yield, and other problems in forestry.

356. Silvics. Prerequisites: 10 hours of Botany. *Mr. Jackson.*
Fundamental principles of forest physiology and ecology; the effects of various factors of site upon the characteristics, growth and development of trees and stands; forest classification.

357. Practice of Silviculture. Three lectures and two laboratory periods. Prerequisite: Forestry 356. *Mr. Jackson.*
Cultural treatment of the forest including intermediate cuttings, methods of securing natural reproduction, and planting.

358. Reforestation Practices. 3 hours. One laboratory and two lecture periods. Prerequisite: Forestry 356. *Mr. Jackson.*
Nursery management; collection, extraction, testing, and storage of seed; planting methods.

359. Regional Silviculture. 3 hours. Prerequisites: Forestry 356, 357. *Mr. Weddell.*
The application of silvicultural methods in the various forest regions of the United States.

370. Wood Anatomy. 3 hours. Three laboratories. Prerequisites: Forestry 83-84. *Mr. Grant.*
Identification of woods by gross and minute structure. Structural features of wood.

371. Forest Products. 3 hours. Prerequisite: Forestry 370. *Mr. Grant.*
The preparation, manufacture and use of forest products other than lumber.

377. Logging. 3 hours. Prerequisite: Forestry 370. *Mr. Grant.*
Logging methods and transportation. Cost studies. Logging equipment.

378. Lumber Manufacture. 3 hours. Prerequisite: Forestry 370. *Mr. Grant.*
Methods of manufacture, re-manufacture, grading and distribution.

385. Game Management. 3 hours. Prerequisite: Forestry 356 or Botany 375. *Mr. Jenkins.*
A general course dealing with game management and game management policy and administration; the relation of game management to forestry and forest management.

386. Wildlife Management Techniques. 3 hours. Prerequisites: Forestry 385 or Zoology 353. *Mr. Jenkins.*
Field and laboratory techniques in wildlife management. Emphasis is placed on techniques commonly required of professional wildlife workers.

390. Forest Fanance. 3 hours. Prerequisites: Economics 5x and Mathematics 101x or 101y. *Mr. Patterson.*
The financial aspects of forestry as a business enterprise; methods of determining the value of forest property; the rate earned by forest properties; the appraisal of stumpage values; the appraisal of damage; the taxation of forest lands.

391. Economics of Forestry. Prerequisite: Economics 5x. *Mr. Worrell.*
Demand for forest products and services; economics of forest production and utilization; distribution of forest products; social aspects of forestry.

492. Economic Analysis in Forestry. Prerequisites: Forestry 390 and 391. *Mr. Worrell.*
Current economic theory as a tool in the analysis of problems in forest production, utilization, and distribution.

505. Naval Stores Practice. 3 hours. Prerequisites: Forestry 357 and 370. *Mr. Bishop.*
Factors affecting the production of naval stores; the management of forests for naval stores production; the manufacturing and marketing of naval stores products.

506. Utilization Field Trip. 3 hours. Prerequisites: Forestry 370 and 378. *Mr. Bishop* and *Mr. Grant.*
A course designed to give the student personal observations of the various phases of the production, manufacturing and use of forest products.

510. Forest Policy. 3 hours. *Mr. Weddell.*
The development of forest policies and activities of the federal and state governments. Open only to forestry students.

511. Forest Management. 3 hours. Prerequisites: Forestry 343 and 357. *Mr. Patterson.*
The organization of forests for management.

512. Forest Management. 3 hours. Prerequisite: Forestry 511. *Mr. Patterson.*
The regulation of the cut of forests for sustained yield; the development of forest working plans.

513. Forest Management. 6 hours. Prerequisite: Forestry 300 and 512. *Mr. Patterson.*
The preparation of a working plan for a forest property.

593. Marketing Forest Products. Prerequisites: Forestry 371 and 391 or equivalent in general or agricultural economics. *Mr. Worrell.*
An economic study of forest product marketing, including a critical analysis of cooperatives and other suggestions for improving the efficiency of forest product markets.

GRADUATE COURSES

600. The Development of Conservation Programs. 3 hours. Prerequisite: Bachelor of Science in Forestry.

The development of public land, water, mineral, forest and range programs. Federal, state and international conservation organizations. Grant-in-aids, interstate compacts, conservancy district and international compacts, organizations, and policies. Development of private, non-government, organized group programs and objectives.

801-802. Advanced Silviculture. 10 hours. Prerequisites: Forestry 83, 84, 359. *Mr. Jackson* or *Mr. Weddell.*

An advanced course dealing with the various phases of silvics and silvicultural management. A specialized problem must be worked out during the year and a written report submitted upon completion of the work.

803-804. Advanced Silviculture. 10 hours. Prerequisite: Forestry 802. *Mr. Jackson* or *Mr. Weddell.*

A continuation of Forestry 801-802, embodying comprehensive research in the field of silviculture. The courses 801-802-803-804 form a sequence, and a thesis must be submitted upon completion of the work.

811-812. Advanced Dendrology. 10 hours. Prerequisites: Forestry 83, 84, 359. *Mr. Bishop.*

A detailed study of the taxonomy, range, and habitats of trees. The collection and mounting of herbarium specimens will constitute a part of the work.

721-722. Advanced Utilization. 10 hours. Prerequisites: Forestry 371, 377, and 505, or equivalent. *Mr. Grant* and *Mr. Bishop.*

An advanced course dealing with the various phases of the production, manufacture, and use of forest products, including naval stores.

723-724. Advanced Utilization. 10 hours. Prerequisite: Forestry 722. *Mr. Grant and Mr. Bishop.*

A continuation of Forestry 721-722.

731-732. Advanced Forest Management. 10 hours. Prerequisites: Forestry 343 and 512. *Mr. Patterson.*

An advanced course dealing with the organization of forests; their regulation for sustained yield; and various mensurational and economic problems common to forest management.

733-734. Advanced Forest Management. 10 hours. Prerequisites: Forestry 731-732. *Mr. Patterson.*

A continuation of Forestry 731-732.

845. Advanced Economics of Forestry. Prerequisites: Forestry 390, 391, 512. *Mr. Worrell.*

Economic problems of the individual forestry enterprise.

846. Advanced Economics of Forestry. Prerequisite: Forestry 391. *Mr. Worrell.*

Current problems and recent developments in the economics of forestry from society's viewpoint.

921. Applied Forestry Problems. Hours to be arranged. Minimum of 5 hours. Prerequisite: Bachelor of Science in Forestry or equivalent. *The Staff.*

This course is designed to give the graduate student an opportunity to apply his knowledge to the study of forestry topics or problems. Instruction will be on the basis of individual guidance or, if the need arises, class instruction. Each student will be required to prepare a complete written report of his study and present it for criticism before the assembled members of the class and School of Forestry faculty.

THE COLLEGE OF EDUCATION

JOHN ANDREW DOTSON, A.B., M.A., Ph.D., *Dean.*

GENERAL INFORMATION

The George Peabody College of Education began in 1903 when Chancellor Walter B. Hill organized the new Department of Philosophy and Education. Dr. Thomas Jackson Woofter was made head of the department. In 1911 the Peabody Board submitted the following contract which was approved by the Governor and the General Assembly:

"In consideration of a grant of $40,000 *by the Trustees of the Peabody Education Fund for the erection and equipment of a building for the Peabody School of Education in The University of Georgia, The University of Georgia hereby agrees to maintain sufficiently and to set apart annually not less than* $10,000 *for the maintenance of this School of Education, this sum to be a perpetual annuity."*

Thus the Department of Philosophy and Education became the Peabody School of Education. Dr. T. J. Woofter, head of the department, was appointed as the first dean of the new school and served in this capacity for twenty years.

In 1931 the Peabody School of Education of the University, the Georgia State Teachers College, the Department of Rural and Vocational Education of the College of Agriculture, and the Departments of Physical Education for Men and Women were combined. The Peabody College of Education is an integral part of the University of Georgia and by action of the Board of Regents, it provides and administers all professional courses designed for the preparation of teachers and all other educational workers. Its purpose is to assist the student in the acquirement of the knowledge of the subjects which he wishes to teach, to develop a professional attitude toward education, and to develop skill in the use of special methods in teaching and supervision.

The effort of the College is to bring into proper adjustment within the limits of the four-year courses the academic training, the theoretical professional training, and the practical professional training necessary for effective teaching.

The College is a professional school and ranks as such with the other professional schools of the University.

The organization of the Peabody College of Education comprises the following divisions: Undergraduate, Graduate, Research, Service, and the Demonstration School.

HONOR SOCIETIES

Students registered in the College of Education with a major in language and literature are eligible for election to Phi Beta Kappa. Students pursuing a program leading to the degree of Bachelor of Science in Education are eligible for election to Phi Kappa Phi.

KAPPA DELTA PI. A chapter of this national organization was established at the University in 1929. Membership is based upon high scholastic attainments and promise of future usefulness in the field of educational leadership.

AREAS OF INSTRUCTION

The College offers instruction in the following areas: Administration, Supervision, Curriculum, Educational Psychology, Research and Measurements, Supervision of Teaching, Elementary Education, Secondary Education, Health and Physical Education, Industrial Arts, Agricultural Educa-

tion, Home Economics Education, Business Education, Art Education, Music Education, Library Education, Speech Correction, and the Education of Exceptional Children.

DEGREES

The College offers the following degrees: (a) Undergraduate degree: Bachelor of Science in Education; (b) Graduate degrees: Master of Arts (Education), Master of Education, and Doctor of Education.

CURRICULA

In providing facilities for the preparation of teachers and other educational workers the needs of the following types of workers are recognized and provided for. Each curriculum is sufficiently flexible to meet the special needs of individual students.

Students must make grades of C or above in all courses in education and in their teaching fields.

Undergraduate Division

The undergraduate division provides for the following types of teachers: (1) Agricultural, (2) Public School Art, (3) Elementary School, (4) Secondard School, (5) Home Economics, (6) Public School Music, (7) Health and Physical Education, (8) Industrial Arts, (9) Teacher-librarians, (10) Business Education, and (11) Education for Exceptional Children.

Graduate Division

The Graduate Division provides for the following: (1) Elementary School Teachers, (2) Elementary School Principals, (3) Secondary School Teachers, (4) Junior College Teachers, (5) Secondary School Principals, (6) School Superintendents, (7) Counselors, (8) School Psychologists, (9) Supervisors and Supervising Teachers, (10) Teachers in special fields such as Health and Physical Education, Industrial Arts, Agriculture, Home Economics, Business Education, and Education for Exceptional Children.

Graduate work in education is distinctly professional in character and is under the administration and supervision of the Graduate School. In addition to this general supervision, special direction in the graduate field of education is provided by the College of Education. A wide range of graduate courses especially designed for those specializing in the higher levels of education is offered. One or more faculty members will be appointed from the staff of the College to act as advisers in arranging and directing the student's program.

The student in cooperation with his advisers will set up his graduate program. The satisfactory completion of four undergraduate courses in education is a prerequisite of any course in education for graduate credit.

Graduate students in education may qualify for the degree of Master of Arts (Education), Master of Education, or Doctor of Education.

GRADUATE PROGRAMS IN EDUCATION LEADING TO MASTER'S DEGREES

Graduate students in education may qualify for either of two degrees at the master's level, depending on their vocational objectives. The degree of Master of Arts (Education) is designed for students whose vocations require training in research procedures. The degree of Master of Education is designed for students whose vocational objectives do not presuppose rigorous training in research procedures but rather a broad background of professional training.

The student should seek the advice of the Chairman of the Division of

Graduate Studies of the College of Education in determinging the suitability of the degree program to his educational purpose.

The Georgia State Board of Education has approved the College of Education to offer graduate training programs leading to the following types of five-year professional certificates:

Teachers—T-5 certificate
Principals—P-5 certificate
Superintendents—Su-5 certificate
Supervisors—Sv-5 certificate
Guidance Counselors—GC-5 certificate

In addition to the officially approved programs listed above, the College of Education offers special training facilities for visiting teachers and other educational specialists.

During his first quarter of graduate residence, the graduate major in Education should request the Chairman of the Division of Graduate Studies, College of Education, to assign him to a major professor. At this time the student will be furnished detailed information concerning the requirements of the graduate degree for which he wishes to become a candidate.

Master of Arts (Education)

The minimum requirement for the degree of Master of Arts (Education) is an approved program of eight courses, residence to the extent of one academic year (which may in some instances be satisfied by a minimum of thirty weeks in residence), and a thesis based upon original source material. Candidates for this degree must have Education 816, Methods of Formal Research in Education.

Master of Education

The minimum requirement for the degree of Master of Education is an approved program, including eleven courses (fifty-five quarter hours) and a residence requirement which cannot be satisfied with less than a minimum of thirty-six weeks. At least three of the courses in the student's program must be in fields other than education. Candidates for this degree must complete for credit the two following courses: Education 826, Methods of Applied Research in Education; and Education 921, Laboratory in Applied Education. No thesis is required for this degree.

Doctor of Education

Requirements. In general, the requirements for the Doctor of Education degree are the same as those for the degree of Doctor of Philosophy. Modification is made, however, in the foreign language requirement and in the residence requirement.

The dissertation required for the degree of Doctor of Education will emphasize the intelligent application of research techniques to the solution of a problem connected with educational practice, and it is the most important single requirement for the degree. It is intended to show the candidate's ability to conduct an independent investigation based upon source materials growing out of practical educational problems in his field. The subject chosen must be definite and of limited range, the method of investigation must be formulated with exactness, the sources that are employed must be properly evaluated, and the conclusions must be well-supported.

Candidates for this degree must have the personal qualities necessary for success in their profession, must have had a *broad background of training*, and must have had at least two years of successful experience in the teaching profession. A candidate who is securing training for administration should include a minor in the social sciences; one who is training for

teaching should have a minor in the subject matter field in which he proposes to teach.

The Graduate School will admit to candidacy for this degree only those students who give promise of the power to do original and creative work on educational problems of major and lasting significance.

BUREAU OF EDUCATIONAL STUDIES AND FIELD SERVICES

The functions of the Bureau of Educational Studies and Field Services are: (1) to carry on, when requested, systematic research in problems of the public schools, the State Department of Education, and the University System of Georgia; (2) to provide, when requested, special field service personnel to the public schools and units of the University System to enable them to deal more effectively with the problems facing the System or units; (3) to conduct, when requested and when feasible, surveys of schools and school systems; (4) to train graduate students and others in the techniques of educational research; (5) to edit and publish several studies and other materials of interest to educators and the public; and (6) to assist local school leaders in conducting educational research.

COOPERATING LABORATORY SCHOOLS

Supervised observation and apprentice teaching are required of candidates for a degree in the Peabody College of Education. Students preparing to teach in high school do their apprentice teaching in one or both teaching fields (major or minor); students preparing to teach in the elementary schools have their directed teaching at either the primary or intermediate level, or both. Apprentice teaching is articulated with instruction in general and specific methods to the limits of practical possibility. Observation and apprentice teaching are done under the daily direction of competent teachers.

Cooperating schools are available as laboratories for observation and experimentation and provide opportunities for the study of educational problems and practices. The classroom instruction in education is thus combined with the opportunity to observe and participate in the activities of this school.

SATURDAY CLASSES

The College of Education holds Saturday classes for superintendents, principals, and teachers living within commuting distance of Athens. The program is planned to meet the expressed needs of those attending. The offerings are on both the graduate and undergraduate levels, and are not limited to work in education.

THE ATLANTA AREA TEACHER EDUCATION SERVICE

The College of Education of the University of Georgia, Emory University, Agnes Scott College, Georgia Institute of Technology, Columbia Theological Seminary, Atlanta Arts Association, in cooperation with six school systems in the Atlanta area, constitute the Atlanta Area Teacher Education Service. The purpose of the Atlanta Area Teacher Education Service is to pool the resources of the higher institutions listed above in providing a program of instruction for the teachers in the Atlanta area. Courses are offered on both credit and non-credit bases. The cooperating institutions provide the instructional and consultative personnel. Residence graduate credit up to 15 quarter hours may be earned in this program.

Several members of the staff of the College of Education and other units of the University serve as full-time or part-time instructors in the Atlanta Area Teacher Education Service.

OFF-CAMPUS WORKSHOPS

Upon request of county or independent system school officials the College of Education may conduct off-campus workshops each school year. Members of the college staff work with principals, teachers, and other school officials in discovering and solving individual and group problems. Staff personnel are available for work with workshop participants on problems arising in classroom teaching, faculty meetings, and community planning. Graduate or undergraduate credit may be earned in a workshop.

CLINICS

Speech and Hearing Clinic. The Speech Correction Area is concerned with training of teachers and the conducting of research in speech correction. As a part of this process, the Speech and Hearing Clinic extends its services to all children and adults who have functional or organic problems of oral communication. Particular attention is given to assisting University students. The speech or hearing problems are diagnosed and a program for corrective treatment is set up on an individual or group basis. Arrangements for these services are made through the Chairman of Speech Correction.

Clinics for Teachers of Vocational Agriculture. In cooperation with the State Department of Education and the technical departments of the University, both professional and technical short unit courses will be offered to groups of employed teachers throughout the state as a part of a program for the improvement of teachers in service. These courses run from two to five days, depending upon the nature of the problems involved.

Other Clinics. Other clinics may be organized, staffed, and conducted by the College of Education upon request from groups of educators in the state concerned with various administrative and instructional problems.

COLLEGE OF EDUCATION COUNSELING SERVICE

The College of Education through the office of the Coordinator of Guidance and Student Personnel operates a counseling clinic for the convenience of students enrolled in the College of Education. Qualified counselors are available to help students with professional and personal problems. Personal data folders, developed primarily in group guidance situations in Education 103 and 303 and supplemented by instructors in succeeding education courses, will be on file in the Guidance Office.

As soon as a student enrolls in the College of Education, he will be assigned a faculty adviser who will assist him in educational planning. These faculty advisers will have access to certain information contained in the personal data folders.

Each student, prior to doing apprentice teaching in his senior year, is strongly urged to have a thorough physical examination. Following this suggestion will be a joint responsibility of the student, office of the Coordinator of Guidance and Student Personnel, and the faculty adviser.

STATE CERTIFICATION OF TEACHERS

The following programs of the College of Education, for the preparation of teachers, are approved by the State Board of Education. A person completing any one of these programs may be recommended to the Division of Certification, State Department of Education, for a four-year professional certificate. For further information see the bulletin of the State Department of Education entitled "Certification of Teachers."

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION FOR ELEMENTARY TEACHERS

MRS. SUTTON, *Chairman*

In the preparation of elementary teachers the freshman and sophomore years are devoted chiefly to general education. The program, which includes English, social science, mathematics, physical and biological sciences, music, art, industrial arts, and physical education, is required of all persons planning to teach in the elementary school from kindergarten through the eighth grade. The program for the junior and senior years consists of three parts: required courses in education, required subject matter courses, and approved electives. The student's program develops from continuous planning with an adviser in terms of individual abilities and needs.

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 2 x-y	10	History 110 x-y	10
Speech 8	5	English 22 x-y	10
Political Science 1	5	Social Science 4	5
Human Biology 1, 2, or Related Substitute	10	Psychology 1	5
Mathematics 101x or Related Substitute	5	Art 100	5
Education 103	5	Industrial Arts 133	5
Physical Science 1, Chemistry 21, Earth Science 4, or Geography 101	5	Economics 5x	5
Military Science 1 or Air Science 5	5	Military Science 2 or Air Science 6	5
Physical Education 1 (for men) or Physical Education 1 (for women)	0 5	Physical Education 2 (for men) or Physical Education 2 (for women)	0 5
	50		50

JUNIOR AND SENIOR REQUIREMENTS*

	Hours
Education 304, 335.4, 336.4	15
**Education 346.4, 347.4, 348.4	15
Education 349 or Approved Elective	5
Physical Education 307	5
Health Education 344	5
Home Economics 304	5
Geography 310	5
Music 302	5
Approved Electives	30
	95

LIBRARY EDUCATION FOR THE ELEMENTARY TEACHER

Library Education courses, described elsewhere in this catalogue, are open to elementary as well as secondary teachers. By taking 20 quarter hours, including L.E. 303, 304, 305, and 502, the student in elementary education may satisfy the subject matter requirements for certification as teacher-librarian. With the approval of the student's faculty adviser, these courses may be included among the 30 hours of electives in the program for the junior and senior years.

*Education courses may be taken any time during the junior and senior years, but must be taken in order in which they are listed. Education 303 will be required of all transfer students who have not had Education 103 or equivalent.

**Any student who shows a marked deficiency in such skills as reading, writing, speaking, or number computations will be deferred from Education 346, 347, 348 until such deficiency has been corrected.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION FOR GENERAL SECONDARY TEACHERS

MR. SINGLETON, *Chairman*

In the preparation of high school teachers the freshman and sophomore years are devoted chiefly to general education. The program, which includes English, social science, mathematics, physical and biological sciences, arts and physical education is required of all persons planning to teach in high school. The junior and senior years consist of a group of required courses in education and an approved program in one or two teaching fields. Electives should be chosen from the field in which the student plans to teach or from related fields, and must be approved by the student's adviser.

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 2x-y	10	History 110x-110y	10
Speech 8	5	English 22x-y	10
Political Science 1	5	*Social Studies	5
Human Biology 1-2 or Botany 10-11	10	**Physical Science	10
Mathematics 101x or 101y	5	Ind. Arts 133 or Art 100	5
Education 103	5	Military Science 2 or Air Science 6	5
Psychology 1	5	Physical Education 2 (for men) or Physical Education 2 (for women)	5
Military Science 1 or Air Science 5	5	Elective	5
Physical Education 1 (for men) or Physical Education 1 (for women)	5		
	50		50

JUNIOR AND SENIOR REQUIREMENTS***

	Hours
Education 304. 335.5, 336.5	15
Education 346.5, 347.5, 348.5	15
Education 349 or Approved Elective	5
Teaching Field (see suggested programs)	30-40
Second Teaching Field (30 hours) or Approved Electives (20 hours)****	30-20
	95

RECOMMENDED COURSES IN TEACHING FIELDS FOR HIGH SCHOOL TEACHERS

The program in the teaching field consists of a minimum of 40 hours concentrated in one broad field or 60 hours in two fields. The courses in the teaching field must be planned with the student's adviser. In general, course selections should be made from the following programs.

*One course should be selected from the following: Anthropology 102, Economics 5x, Geography 101, Social Science 4, Sociology 5.

**Two courses should be selected from the following: Chemistry 21-22, Geology 25-26, Geography 121-122, Physical Science 1 and Earth Science 4.

***Education courses may be taken at any time during the junior and senior years, but must be taken in the order in which they are listed. Education 303 will be required of all transfer students who have not had Education 103 or equivalent.

****It is desirable for secondary education majors to include Health Education 370 as an elective and for prospective English teachers to include Library Education 406.

SOCIAL SCIENCE TEACHERS

(Minimum of 30 hours from the following courses)

HISTORY:	Hours
History 330, Europe Since 1914	5
History 350x-y, American History	10
History 410, History of the Far East	5
History 458, History of American Diplomacy	5
History 459, History of Georgia	5
History 460, Russia and the Soviet Union	5
History 492, Latin American Republics Since 1823	5
History 495, The United States in World Affairs Since 1900	5
POLITICAL SCIENCE:	
Political Science 405, The Constitution of Georgia	5
Political Science 406, State Government	5
Political Science 409, American Political Thought Since 1800	5
Political Science 410, American Political Parties	5
Political Science 412, The Governments of the Soviet Union and the Far East	5
Political Science 420, International Relations	5
Political Science 421, International Organization	5
Political Science 468, City and County Government	5
Political Science 481, Political Institutions	5
SOCIOLOGY:	
Sociology 315, The Field of Social Work	5
Sociology 360, Contemporary Social Problems	5
Sociology 427, Personality and Social Adjustment	5
Sociology 431, Principles of Rural-Urban Sociology	5
Sociology 435, Community Organization	5
Sociology 461, The Family	5
ECONOMICS:	
Economics 386, Labor Economics	5
Economics 437, Comparative Economic Systems	5
Economics 444, Government and Business	5
Economics 455, Contemporary Economic Problems	5
Economics 466, Economics of Consumption	5
GEOGRAPHY:	
Geography 310, Conservation of Natural Resources	5
Geography 352, Geography of North America	5
Geography 358, Economic Geography	5
Geography 365, Southeast Asia	5
Geography 436, Geography of the Southeastern United States	5
Geography 441, Caribbean America	3
Geography 442, South America	3
Geography 444, Europe and the Mediterranean	5
Geography 446, Geography of the Soviet Union	5

ENGLISH TEACHERS

(Minimum of 30 hours from the following courses.)

(Approved distribution necessary.)

ENGLISH:	Hours
English 305, Lyric Poetry	5
English 310, Advanced Grammar and Syntax	5
English 361, The Short Story	5
English 420, American Literature to 1865	5
English 422, American Literature after 1865	5
English 429, Southern Literature	5
English 440, Shakespeare to 1600	5
English 441, Shakespeare after 1600	5

SPEECH:
- Speech 209, English Phonetics — 5
- Speech 310, Survey of Speech Problems — 5
- Speech 386, Oral Interpretation of Literature — 5
- Speech 396, Dramatic Interpretation — 5

JOURNALISM:
- Journalism 566, Journalism in the Secondary School — 5

MATHEMATICS TEACHERS

(Minimum of 30 hours from the following courses.)

	Hours
MATHEMATICS:	
Mathematics 101 x-y, College Algebra and Trigonometry	10
Mathematics 102, Mathematics of Finance	3
Mathematics 110, Analytic Geometry	5
Mathematics 354 and 355, Calculus	10
Mathematics 356, Statistics	5
Mathematics 410, Fundamental Ideas of Algebra	5
Mathematics 412, College Geometry	5
Mathematics 441, Introduction to Higher Algebra	5
BUSINESS ADMINISTRATION:	
Business Administration 6 x-y, Principles of Accounting	10

TEACHERS OF FOREIGN LANGUAGES

(Minimum of 30 hours in one of the following languages.)

	Hours
FRENCH:*	
French 103-104, Intermediate French	10
French 106, Intermediate French Conversation and Composition	5
French 201, 202, Introduction to the Study of French Literature	10
French 556, Advanced French Syntax and Composition	5
French 557, French Phonetics	5
French (Education) 581, Problems of Teaching Romance Languages	5
SPANISH:**	
Spanish 103-104, Intermediate Spanish	10
Spanish 106, Spanish Conversation and Composition	5
Spanish 201, 202, Introduction to Spanish Literature	10
Spanish 308, Spanish Language Workshop	5
Spanish 420, Modern Spanish Novel	5
Spanish 526, Advanced Spanish Syntax and Composition	5
Spanish 528, Spanish Phonetics	5
Spanish (Education) 581, Problems of Teaching Romance Languages	5
LATIN:	
Latin 201, 202, Elementary Latin	10
Latin 203, Intermediate Latin	5
Latin 304, Reading in Latin	5

SCIENCE TEACHERS**

(Minimum of 30 hours from the following courses.)

	Hours
BOTANY:	
Botany 10-11 or 21-22, Elementary Botany	10
Botany 305, Identification of Flowering Plants	5
Botany 375, Plant Ecology	5

*French 101-102 may be substituted for two junior division courses.
**Spanish 101-102 may be substituted for two junior division courses.

CHEMISTRY:
Chemistry 21-22, General Chemistry 10
Chemistry 23(223), Qualitative Inorganic Analysis 5
Chemistry 340 a-b, Organic Chemistry 10
Chemistry 370-371, Industrial Chemistry 10
Chemistry 380, Quantitative Inorganic Chemistry 5

PHYSICAL SCIENCE SURVEY:
Physical Science 1, Physics and Astronomy 5

PHYSICS:
Physics 27(227), General Physics — Mechanics 5
Physics 28(228), General Physics — Heat, Sound, Light 5
Physics 329, General Physics—Electricity and Modern Physics 5
Physics 370, Principles of Photography 5
Physics 380, Electronics 5

ASTRONOMY:
Astronomy 391, Descriptive Astronomy 5

ZOOLOGY:
Zoology 25-26, (225-226), General Zoology 10
Zoology 381, Ornithology 5
Zoology 353, Animal Ecology 5
Zoology 390, Animal Physiology 5
Zoology 404, Herpetology 5

BACTERIOLOGY:
Bacteriology 350, Introductory Microbiology 5

ENTOMOLOGY:
Entomology 373, General Entomology 5
Entomology 374, Economic Entomology 5

GEOLOGY:
Geology 25-26, Elements of Geology 10
Geology 321, Minerology and Crystallography 3
Geology 323, Petrology 3
Geology 332, Structural Geology 3
Geology 334, Sedimentation 3
Geology 402, Geomorphology 5

PHYSICAL GEOGRAPHY:
Geography 121-122, Natural Environment 10
Geography 310, Conservation of Natural Resources 5
Geography 401, Regional Climatology and Vegetation 5

SCHOOL LIBRARIAN

(Minimum of 30 hours for a major.)

MRS. BROADHURST, *Chairman*

The University of Georgia now offers thirty quarter hours work in Library Education. The courses are designed to meet the needs of five groups of persons: (1) students who wish to qualify for positions as librarians or teacher-librarians in elementary or secondary schools under the requirements of the Southern Association standards for accredited schools; (2) students who wish to prepare for public library service in small communities and rural areas; (3) teachers and prospective teachers who feel the need of wider acquaintance with library materials; (4) administrators and supervisors of public schools; (5) students in other courses by supplying elementary methods of library research.

A major concentration of study consists of thirty quarter hours in addition to apprentice work. Twenty quarter hours, including 303, 304, 305, and 502

will satisfy the subject matter requirements for certification as teacher-librarian. No courses are offered by correspondence.

	Hours
Library Education 303, Utilization of Library Materials	5
Library Education 304, Organization of Library Materials	5
Library Education 305, Administration of a Small Library	5
Library Education 406, Experiencing Literature With Children and Adolescents	5
Library Education 501, Library Guidance for Teachers and Administrators	5
Library Education 502, Principles of Book Evaluation	5

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN INDUSTRIAL ARTS

MR. HARRISON, *Chairman*

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 2 x-y	10	English 22 x-y	10
Speech 8	5	History 110 x-y	10
Political Science 1	5	Art 100	5
Education 103	5	Industrial Arts 22	5
Industrial Arts 20, 150	10	Psychology 1	5
Social Science 4	5	Mathematics 101x or Related Substitute	5
Physical Science 1, Earth Science 4, or Geography 121	5	Military Science 2 or Air Science 6	5
Military Science 1 or Air Science 5	5	Physical Education 2 (for men)	0
Physical Education 1 (for men)	0	or	
or		Physical Education 2 (for women)	5
Physical Education 1 (for women)	5	Electives	5
	50		50

JUNIOR AND SENIOR REQUIREMENTS**

	Hours
Education 304, 335.6, 336.6	15
Education 346.6, 347.6, 348.6	15
Education 455	5
Industrial Arts 323	5
Industrial Arts 328	5
Industrial Arts 330	5
Industrial Arts 340	5
Industrial Arts 550	5
Electives or Second Teaching Field	30
	95

**Education courses may be taken at any time during the junior or senior years, but must be taken in the order in which they are listed. Education 303 will be required of all transfer students who have not had Education 103 or equivalent.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN ART

Mr. Pfister and Mr. Garrison, *Co-Chairmen*

Freshman and Sophomore Years

	Hours		Hours
English 2x-y	10	English 22 x-y	10
Art 20, 30, 40	15	Social Science 4	5
Human Biology 1-2 or Related Substitute	10	History 110 x-y	10
Speech 8	5	Political Science 1	5
Education 103	5	Art 111	5
Military Science 1 or Air Science 5	5	Art 100, 121, or 160	5
Physical Education - (for men)	0	Physical Science 1. Earth Science 4 or Geography 101	5
or		Music 358	5
Physical Education - (for women)	5	Military Science 2 or Air Science 6	5
		Physical Education (for men)	0
		or	
		Physical Education 2 (for women)	5
	50		55

Junior and Senior Requirements**

	Hours
Eudcation 304, 335.9, and 336.9	15
Education 346.9, 347.9, 348.9	15
Sociology 431	5
Health Education 344	5
Art 210 or 504	5
Art 211, 220, 251, 252, 387, or 389 (select two)	10
Art 221, 222, 223, 231, 241, 242, or 271 (select three)	15
Art 283	5
Art 513	5
Ceramics	5
Approved Electives	10
	95

**Education courses may be taken at any time during the junior or senior years, but must be taken in the order in which they are listed. Education 303 will be required of all transfer students who have not had Education 103 or equivalent.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN MUSIC EDUCATION*

MR. BEACH and MR. SINGLETON, *Co-Chairmen*

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 2 x-y	10	Art 100, 281, or 282	5
Human Biology 1-2	10	English 22 x-y	10
Education 103	5	History 110 x-y	10
Political Science 1	5	Music 34, 35, 36	9
Music 10, 11, 12	9	Music 22a-b-c	6
Music 85 a-b-c	3	Music 86 a-b-c	3
Music 87 a-b-c	3	Music 88 a-b-c	3
Military Science 1 or Air Science 5	5	Physical Science 1 or Geography 121	5
Physical Education 1 (for men)	0	Military Science 2 or Air Science 6	5
or		Physical Education 2 (for men)	0
Physical Education 1 (for women)	5	or	
		Physical Education 2 (for women)	5
	50		56

JUNIOR AND SENIOR REQUIREMENTS**

	Hours
Education 304, Music 312 and 313; or Education 304, 335.10, and 336.10	15
Education 346.10, 347.10, 348.10	15
Education 349	5
Additional hours in music to be selected with the approval of the Head of the Department of Music and of the Dean of the College of Education	40
Approved electives	15

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN BUSINESS EDUCATION

MR. ROBINS, *Chairman*

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 2 x-y	10	English 22 x-y	10
Business Administration 8	3	Social Science 4	5
Speech 8	5	Psychology 1	5
Political Science 1	5	Art 100 or Industrial Arts 133	5
Human Biology 1-2	10	Economics 5 x-y	10
Mathematics 101x or 102 and 303	5	Business Administration 6 x-y	10
Education 103	5	Physical Education 2 (for men)	0
Physical Science 1 or Geography 121	5	or	
Military Science 1 or Air Science 5	5	Physical Education 2 (for women)	5
Physical Education 1 (for men)	0		
or			
Physical Education 1 (for women)	5		
	53		50

*All music education majors must be able to read and play on the piano simple hymns or music of similar difficulty before graduation. All music majors must participate in ensemble courses.

Junior and Senior Requirements*

	Hours
Education 304, 335.7, 336.7	15
Education 346.7, 347.7, 348.7	15
Education 349	5
Business Administration 300 a-b-c**	9
Business Administration 303, 304, 305	6
Business Administration 310	5
Economics 360, 466	10
Electives	23
	93

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN HOME ECONOMICS

Miss Moore, *Chairman*

Freshman and Sophomore Years

	Hours		Hours
Art 30 or 100	5	English 22 x-y	10
English 2 x-y	10	Chemistry 260 or Approved Substitute	5
Speech 3	3	Economics 5x or Approved Elective	5
Political Science 1 or Approved Elective	5	Sociology 5 or Social Science 4	5
Psychology 1	5	Home Economics 5	5
Home Economics 20	5	Home Economics 75	5
Education 103	5	Home Economics 293	5
Human Biology 1	5	Home Economics 222	5
Chemistry 21	5	Physical Education 2	5
Physical Education 1	5	Electives	6
	53		56

Junior and Senior Requirements

	Hours
Bacteriology 350	5
Home Economics 306, 321, 344	13
Home Economics 368, 369, 390, 490	14
Education 335.2, 336,2, 455	15
Education 346.2, 347.2, 348.2	5
Home Economics 343, 351 or 358, 357 or 377	13
Education 349 or approved substitute	5
Electives	10
	90

*Education courses may be taken at any time during the junior or senior years, but must be taken in the order in which they are listed. Education 303 will be required of all transfer students who have not had Education 103 or equivalent.

**Those desiring a major without shorthand may take certain selected substitute courses with approval of the adviser.

PROGRAMS FOR THE BACHELOR OF SCIENCE IN EDUCATION IN THE DIVISION OF HEALTH AND PHYSICAL EDUCATION

Mr. Smith, *Chairman*

Freshman and Sophomore Years

	Hours		Hours
English 2x-y	10	English 22x or 22y	5
Education 103	5	**Chemistry 21 and (22 or 346)	10
Human Biology 1-2	10	Physical Education 18-19	6
Speech 50 (or 8)	5	Physical Education 40a-b-c (men)	9
History 110x-y	10	Physical Education 353a-b-c (women)	9
Military Science 5	5	Military Science 2 or Air Science 6	6
Physical Education 1x (for men)	5	Physical Education 2x (men)	0
Physical Education 1 (for women)	5	Physical Education 2 (women)	5
*Social Studies	5	*Social Studies	10
		Elective (outside the Division)	5
	50		50

JUNIOR AND SENIOR REQUIREMENTS

Concentration Areas

Although a student will receive some training in each one of the fields, Health Education, Physical Education, and Recreation Education, he must, with the approval of his adviser and Head of the Department, set up a program in one of the Concentration Areas at the beginning of the junior year or earlier. A student will be certified in his major concentration area. If he desires certification in another concentration area he must satisfy the requirements in that area.

1. Physical Education

	Hours
Education 304, 335.3, 336.3	15
Education 346.3, 347.3, 348.3	15
Education 390, 405, 420, or 349 (select one)	5
Phy. Educ. 311, 360, 361, 372, 383, 384	24
Zoology 312a-b	10
Phy. Ed. (women) 307, 352a-b-c	14
Phy. Ed. (men) 380 a-b-c, 381a-b-c	18
Electives (women) recommended: Phy. Ed. 315, Art 100 (or Art 513)	13
Electives (men) recommended: Phy. Ed. 307, 577, Art 100 (or Art 513)	9
	96

II. Health Education

	Hours
Education 304, 335.3, 336.3	15
Education 346.3, 347.3, 348.3	15
Education 390, 405, 420, or 349 (select one)	5
Phy. Educ. 307, 360, 361, 372, 371, 383	28
Zoology 312a-b	10
Bacteriology 350	5
Family Development 390 or 393	5
Education 455	5
Electives in Related Areas	8
	96

III. Recreation Education	Hours
Education 304, 335.3, 336.3	15
Education 346.3, 347.3, 348.3	5
Physical Education 307, 311, 372, 384, 385, 386, 387	25
In addition (men) 252b, 381a-b-c	12
***Art, Drama, crafts	15
Sociology 427	5
Recommended Electives:	
Physical Education 383 (men & women)	3
Physical Education 380a-b-c (men)	6
Physical Education 315-352a-b-c (wmoen)	18
	96

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE WITH A MAJOR IN AGRICULTURAL EDUCATION

Mr. Tolbert, *Chairman*

Freshman and Sophomore Years

	Hours		Hours
Agricultural Economics 4	3	Agricultural Economics 10	3
Agronomy 1	3	Agricultural Engineering 20, 60, 70, 280 (2 of the 4)	6
Animal Husbandry 1	3	Agronomy 10	5
Bacteriology 21, 22 and Zoology 25, 26 (3 of the 4)	15	Chemistry 260	5
Chemistry 21, 22	10	English 6	5
Dairy Husbandry 3	3	Forestry 2	3
English 2x-y	10	Mathematics 101x	5
Horticulture 1	3	Physics 20	5
Orientation	1	Political Science 1	5
Military Science 1 or Air Science 5	5	Poultry Husbandry 60	3
Physical Education 1	0	Military Science 2 or Air Science 6	5
		Physical Education 2	0
		Electives	5
	56		55

Junior

	Hours
Science Selections (5 of 7)	25
Education 304 and four of the following courses:	
Bacteriology 350	5
Mathematics 356	5
Plant Pathology 353	5
Sociology 431 or 433	5
Veterinary Hygience 200	5
Entomology 374	5
Minor No. 1	10
Selected from any department of the University subject to the approval of the adviser.	
Minor No. 2	10
Agricultural Engineering 203	5
Food Technology 363 or 409	5
Education 303	5
	50

Senior

	Hours
Major	25
Education 335.1	5
Education 336.1	5
Education 346.1, 347.1, 348.1	15
Special requirements	20
Agricultural Economics 301	5
Animal Husbandry 373	5
Education 349	5
Electives	5
	45

***Art 100, 513; Drama 1, Speech 429; Industrial Arts 133

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SPEECH CORRECTION

MR. AINSWORTH, *Chairman*

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 2x-y	10	History 110x-y	10
Speech 8	5	English 22x-y	10
Political Science 1	5	Social Science 4	5
Human Biology 1-2 or Related Electives	10	Psychology 1	5
Mathematics 101x or Related Elective	5	Speech 50	5
Education 103	5	Speech 209	5
Physical Science 1	5	Economics 5x	5
Military Science 1 or Air Science 5	5	Military Science 2 or Air Science 6	5
Physical Education 1 (for men) or Physical Education 1 (for women)	0 5	Physical Education 2 (for men) or Physical Education 2 (for women)	0 5
	50		50

JUNIOR AND SENIOR REQUIREMENTS

	Hours
Education 304	5
Education 335.4 and 336.4	10
Education 346.16, 347.16, 348.16	15
Speech 310, 412, 470, 471	20
Speech or Education 474, 476	10
Education 509, 534	10
Psychology 415, 423, and 490 or Education 452	15
Electives	10
	95

COURSES OF INSTRUCTION

(Peabody Hall, North Campus)

The University reserves the right to withdraw any course for which the registration is not sufficient, and to offer courses not here listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated all courses will meet five times a week and carry a credit of five hours.

A. Courses in Education for Undergraduate Students

Basic Courses in Education

The basic courses in education may be sectioned in accordance with the teaching objective of the student. Sectioning will be done in 335, 336, 346, 347, and 348, and may be done in other basic courses in education. Point and figure after the course number will designate section. For example, "335.1" denotes the section for agriculture teachers; "335.4" denotes the section for elementary teachers. Below are the numbers for the different kinds of sections:

.1 agricultural; .2 home economics; .3 health and physical education; .4 elementary; .5 high school; .6 industrial arts; .7 business education; .8 library science; .9 art education; .10 music education.

103. AN INTRODUCTION TO PERSONAL AND PROFESSIONAL DEVELOPMENT. *Mr. Hitchcock* and *Miss Rooks.* (For first-quarter freshmen through second-quarter sophomores).

Designed for prospective teachers. By means of tests, inventories, autobiography, student questionnaire, group activities, and individual assistance the student may

study himself to discover strengths and weaknesses. Also: analyzing occupational choice; matching occupation requirements with personal qualifications; making educational and occupational plans to meet individual needs; studying duties and responsibilities of teachers to determine competencies to be acquired; observing to determine choice of subject or grade level for teaching; becoming acquainted with the University program, the public school programs in the state, community resources that contribute to an improved instructional program, and the development of the American school; developing a philosophy of life and of education; improving study habits and budgeting time.

304. EDUCATIONAL PSYCHOLOGY. *Mr. Aaron, Mr. Bledsoe,* and *Mr. Garrison.*
Special emphasis is placed upon developing competencies on the part of prospective elementary and high school teachers in understanding and applying the psychological principles involved in the growth and development of children and youth. Selected Schools will be used as laboratories for students in this course.

335. CURRICULUM PLANNING. Prerequisite: Education 103 or equivalent. *The Staff.*
Purpose is to develop the ability of the student to engage in curricular activities of the public schools. Emphasis is placed upon procedures for locating, organizing, and summarizing data concerning activities with youth and adults based upon their needs and interests. Several methods of formulating curricular programs are studied and evaluated. Directed observation will be carried on in selected schools. Interests and needs of the students will be cared for in two ways. First, they will be sectioned according to their major interests; that is, vocational agriculture, homemaking, health education, and the general teachers in the elementary and high schools. Second, within each section students will be permitted and encouraged to emphasize the type of work in which they expect to engage; for example, some may be interested in the primary, others in the intermediate levels of instruction, and still others in social science or science on the high school level.

336. TEACHING PROCEDURES. Prerequisite: Education 103 or equivalent. *The Staff.*
Evaluation of the teaching procedures used by the teachers in the public schools. Technique used in teaching pre-primary, primary, intermediate, and high school groups; out-of-school youth groups; and adult groups. Selected schools are used for observation. Observation of out-of-school youth and adult groups are made when practicable. Individual interests and needs of students are provided for by sectioning in the same manner as in Education 335.

346, 347, and 348. APPRENTICE TEACHING. 15 hours. Prerequisites: Education 335 and 336. Off-campus Centers. *Staff.*
A cooperative undertaking between the University and selected school systems. The three fold purpose is: (1) to give college students experience in actual problems of teaching in normal situations, (2) to aid teachers in service, and (3) to assist faculty members of the College of Education in understanding the actual problems in the field for which they are helping to prepare teachers.
The public schools and the supervising teachers used in the program are carefully selected by the College of Education and are located in the several areas of the state. Each school selected provides facilities and opportunities for the participation of apprentices in the teaching program of that school. The student, for a quarter, becomes a resident of the selected school community and an apprentice to the supervising teacher. He participates in all the responsibilities carried by his supervising teacher, engaging in a total program of teaching activities, gradually advancing from observer to participant and finally to full responsibility as a teacher. His work is under the joint guidance of the local teaching staff and members of the University faculty.

349. SEMINAR IN EDUCATION. Prerequisite: Apprentice Teaching. *The Staff.*
Seminar dealing with problems emerging from experiences in apprentice teaching. Emphasis will be placed upon the planning of a total school program, and the place and responsibilities of each member in the school. Special attention will be given to the work of the public school in relation to the needs and interests of the community, the nation, and the world.

Additional courses in Education.

301. PUBLIC EDUCATION. *The Staff.*
A study of public education in Georgia and the Southeast. This course is for prospective citizens who will be taxpayers, patrons of schools, and members of school boards, as well as for prospective teachers.

303. INDIVIDUAL ANALYSIS AND PROFESSIONAL PLANNING. *Mr. Hitchcock* and *Miss Rooks.* (No credit allowed if student has credit for Education 103 or equivalent. For 3rd quarter sophomores through 1st quarter seniors).
Through a battery of tests, group work, and individual assistance, students will receive systematic help in understanding their strengths and weaknesses in order that more intelligent personal decisions may be reached and a professional program may be planned to meet individual needs.

390. School Administration for Teachers. Prerequisites: Three courses in education. *Mr. Smith* and *Mr. Sprowles.*

This course deals with the administrative duties of teachers and with the guidance of out-of-class activities of pupils.

Music 302. Methods of Teaching Public School Music. For education majors only. *Mr. Beach.*

A course of music fundamentals designed for grade teachers.

Music 312. Methods of Teaching Music in the Elementary School. Prerequisite: Music 302. Fine Arts Building. *Mr. Beach.*

Music 313. Methods of Teaching Music in Junior and Senior High Schools. Fine Arts Building. *Mr. Beach.*

Home Economics 304. Nutrition Education for Teachers. Prerequisite: Senior college standing. *Miss Beall* and *Miss Moore.*

A study of the diet habits of Georgia school children and the relation of nutrition to health. Emphasis is placed on how all teachers working in their classrooms, in schools, and in communities, can enrich school programs and improve the health of school children through nutrition education.

Art 100. The Visual Arts. Five laboratory periods. *Miss Browne, Mr. Sellers,* and *the Staff.*

Based upon the art needs of youth, the course will deal with socially useful and personally enriching arts. Studio work, films, excursions, gallery visits, readings, discussions and reports.

Art 513. Crafts. Five laboratory periods. *Miss Amos.*

The course develops ability to design 3-dimensionally in terms of material, process, and use. According to the needs of individual students, work is done in clay modeling, puppetry, papier mache, textile printing, simple weaving, and loom construction. Use of native materials is stressed. Students have contact with craft programs for children. The course is planned to meet the needs of teachers.

Art 514. Drawing and Painting. Five laboratory periods. *Miss Browne.*

Students in this course relate their own work in drawing, pictorial composition, color, and techniques to the problems of teaching painting. Through readings, discussions and visits, students study the role of art experience as a means of personal development. Emphasis is placed upon the relationship of art to curricular patterns of the public school.

Art 515. Design. Five laboratory periods. *Miss Browne.*

The purpose of the course is two-fold: (1) to deepen and broaden the design sense of students; (2) to help them develop means of teaching design as fundamental to every art activity. In accordance with the needs of students in the class, the course deals with problems of teaching at various age levels.

Art 516. Modeling and Carving. Five laboratory periods. *The Staff.*

The course offers experience in three-dimensional design with materials readily available for teachers.

Art 523. Materials and Design. Five laboratory periods. *The Staff.* (Scheduled only with consent of adviser).

An advanced course offering opportunity to work in one or more of the following fields: pottery, weaving, silk-screen printing, metal working.

Art 540. Art Activities in the Elementary School. *Miss Amos, Miss Browne,* and *Mr. Sellers.*

Students in this course relate their own creative work in painting, designing, and constructing to the teaching of art.

B. Courses in Education for Advanced Undergraduates and Graduates. (Courses numbered 400-600 and 500-700 may be taken by advanced undergraduates. Courses 600 and above are for graduate students.)

AUDIO-VISUAL EDUCATION

564. Survey of Audio-Visual Education. *Mr. Oliver.*

A survey of principles basic to audio-visual methods in teaching. Various types of instructional materials and equipment and the advantages and limitations of each type. Laboratory experiences to develop skills in the general use of audio-visual materials and equipment.

565. Selection and Utilization of Audio-Visual Materials and Equipment. *Mr. Oliver.*

Criteria of selection and basic principles of utilization of instructional materials and equipment. Planned around areas of special interest of the class. Laboratory ex-

periences to develop familiarity with materials and the ability to select, maintain, and operate various types of equipment. Primarily for classroom teachers and coordinators of audio-visual programs.

566. Organization and Administration of the Audio-Visual Program. *Mr. Oliver.*

Problems of organizing and administering a program for the effective local use of audio-visual materials and equipment. Laboratory experiences in selection and evaluation, school plant requirements, costs, steps in developing the program, and measures for appraising adequacy and effectiveness. Primarily for administrators and audio-visual coordinators.

568. Production of Audio-Visual Materials. *Mr. Oliver.*

Production of audio-visual materials largely in the photographic, sound, and graphic areas. Problems of educational productions on a general and broad scale. Laboratory experiences in the production of materials within some areas of special interest. Primarily for classroom teachers and audio-visual coordinators.

569. Seminar in Audio-Visual Education. *Mr. Oliver.*

A research course in audio-visual education directed toward collective effort on projects in which class members are interested. Open only to students who have completed basic courses in audio-visual education and are actively engaged in research in this field or are actively employed in the audio-visual area.

EDUCATIONAL ADMINISTRATION

790. Educational Administration. Prerequisites: Four courses in education. *Mr. Dotson, Mr. Sprowles, Mr. Smith,* and *Mr. Williams.*

Basic course for those preparing for administrative positions. Among the topics treated are: the function of education in a democracy, the legal bases of a school system, boards of education, organization of a school system, business management, relations with the public, adult education. Attention will be directed primarily to the organization and administration of schools in the South.

791. Educational Administration. *Mr. Dotson, Mr. Smith, Mr. Sprowles,* and *Mr. Williams.*

The second basic course for those preparing for administrative positions. The topics treated are: business management, curriculum making, improvement of instruction, the school plant, relations with the public, and adult education.

794. School Administration. Prerequisites: Four courses in education. *Mr. Dotson, Mr. Sprowles, Mr. Smith,* and *Mr. Williams.*

A course dealing with the duties of school principals, organization and administration of the individual school, the principal's responsibility for the curricula of his school and for supervision, the principal's relationships. Not open to students who have credit for Education 793. (794.4 will be used for Elementary School Principals; 794.5 for Secondary School Principals.)

795. State and County School Administration. Prerequisite: Four courses in education including Education 790 or equivalent. *Mr. Dotson, Mr. Smith, Mr. Sprowles,* and *Mr. Williams.*

The relation of the Federal Government to education; the State Department of Education and the functions of its various divisions; local units of administration; the relationships of the superintendent; county boards of education; school law; certification of teachers; the county unit system; consolidation and transportation.

797. The School Plant. Prerequisites: Four courses in education and two courses in school administration. *Mr. Smith, Mr. Sprowles,* and *Mr. Williams.*

An intensive study of the operation and maintenance of the school plant.

798. School Finance and Business Management. Prerequisite: Education 790. *Mr. Smith* and *Mr. Williams.*

Problems of financing a school system; school revenues; budget making; school costs; insurance; financial accounting, records, and reports; management of school plant, equipment, and supplies.

824. School Personnel. Prerequisite: Four courses in education, including Education 790 or 794. *Mr. Smith* and *Mr. Williams.*

The administration of the school staff, selection, salary schedule, tenure, etc.

899. School Law. Prerequisite: Four courses in Education, including one course in educational administration. *Mr. Feild* and *Mr. Williams.*

Makes available to administrators and to classroom teachers instruction in the legal principles which are applicable to public education. Contains three principal divisions: (1) The nature and structure of the public school system; (2) teacher problems; and (3) student problems.

CURRICULUM

405. Fundamentals of the Curriculum. Prerequisites: Four courses in education. *Miss Burnham, Miss Cox,* and *Mr. Morris.*

Introduction to the basic principles of curriculum theory as found in psychology, anthropology, sociology, economics, and political science. Application is made to Georgia schools and schools of the Southeast.

506. Curriculum Planning. Prerequisites: Four courses in education. *Miss Burnham, Miss Cox,* and *Mr. Morris.*

Study of and practice in the development of curricular programs for the elementary and secondary schools of contemporary America. Special application to Georgia schools and schools of the southeastern states.

762. The Community Schools. *Mr. Dotson, Mr. Goodlad,* and *Mr. Jordan.*

The primary purpose of this course is to prepare selected school personnel, especially principals, for participation in planning and developing educational programs. The concept of the community school will be emphasized. Procedures will be developed for enlisting teachers and laymen in planning more adequate use of human and other resources in studying the school community as a basis for the development of an educational program to meet the needs of the people. A critical examination will be made of the literature and experiences of planning groups in America and other parts of the world.

804. Curriculum Foundations. Prerequisites: Four courses in education. (Not open to students who have had Education 504). *Mr. Morris.*

Deals with the foundations of the curriculum as found in the fields of psychology, anthropology, economics, political science, and philosophy.

EDUCATIONAL PSYCHOLOGY

412. Problems in Educational Psychology. Prerequisite: Education 304. *Mr. Aaron, Mr. Bledsoe, Mr. Garrison,* and *Mr. Greene.*

A course designed to provide opportunities for the advanced student to secure specialized training in selected areas of educational psychology, e. g., individual differences, motivation, evaluation procedures, etc.

452. Psychology of Childhood. Prerequisite: Education 304 or equivalent. *Mr. Aaron, Mr. Bledsoe, Mr. Garrison, Mr. Green, Mrs. Sutton.*

A course designed to develop functional skills in understanding the interests, needs, and abilities of elementary pupils and in evaluating the total development of elementary pupils.

455. Psychology of Adolescence. Prerequisite: Education 304 or equivalent. *Mr. Aaron, Mr. Bledsoe, Mr. Garrison, Mr. Greene.*

A course designed to develop functional skills in understanding the interests, needs, and abilities of adolescents and in evaluating the total development of adolescents.

636. Fundamentals of Child Study. *Mr. Shufelt.*

Techniques of learning to study a child. Includes the history and purposes of child study, the basic assumptions and philosophies, the necessary scientific knowledge, planning to make tentative and alternative hypotheses about the causes of specific bits of behavior and learning, spotting recurring patterns of behavior, and processing a case record in terms of developmental tasks and adjustment problems indicated by recurring behavior and situations.

684. Advanced Child Study. Prerequisite: Four courses in education including Education 636. *Mr. Shufelt* and *Mr. Garrison.*

Emphasis is placed on the scientific interpretation of a case record. An organizing framework of six dynamic areas is introduced, namely: physiological processes, affectional processes, peer group processes, socialization processes, self-developmental processes, self-adjustive processes. The framework serves two purposes: it provides a way of organizing the facts in the individual child's record; it provides a way of organizing the scientific principles and generalizations which will explain the child's behavior and which are developed through lectures and directed reading.

686. Child Study as a Basis for Educational Planning. Prerequisite: Education 636 and 684. *Mr. Shufelt.*

Attention is directed toward the educational implications of a scientific understanding of children. Each teacher builds up and interprets a case record on a child, emphasizing the self-processes. Sociometric techniques are used to analyze the group structure in the classroom in order to see the peer relationships more clearly. The interpretation of the case record and the analysis of the group relationships as they affect the child being studied are used as a basis for examining the school program and for planning specific ways to help the child with his developmental tasks and adjustment problems. Reading is directed specifically toward a deepening of the understanding of the self-processes and an examination of the literature in the field of sociometry.

802. Advanced Educational Psychology. *Mr. Aaron, Mr. Bledsoe, Mr. Garrison,* and *Mr. Greene.*

A consideration of the practical applications of the scientific findings of educational psychology to the more complex problems involved in the growth and development of learners.

EDUCATIONAL RESEARCH AND MEASUREMENTS

418. Statistical Methods in Education. *Mr. Aaron, Mr. Bledsoe, Mr. Garrison,* and *Mr. Greene.*

A course designed to develop an understanding of the appropriate uses of statistical methods in education and to develop basic skills needed in the analysis of quantitative data in education.

421. Special Problems in Education. *Selected members of the Staff.*

For selected students to secure specialized training experience uniquely appropriate to the needs of the individual. The student's project may involve intensive library investigation in a special field or the collection and analysis of original data pertinent to a given problem.

456. Educational Tests and Measurements. Prerequisites: Four courses in education. *Mr. Aaron* and *Mr. Bledsoe.*

Nature and function of measurement, the traditional examination, new-type tests, standardized tests, surveys and diagnostic tests, remedial teaching based upon diagnostic tests, measures of central tendency, measures of variability, tests and the classroom teachers, tests and the administrators.

615. Problems in the Evaluation of Instruction. *Mr. Greene.*

This course will deal with the nature and function of measurements, the traditional examination, new type tests, standardized tests, surveys and diagnostic tests, observational techniques, and other criteria. Special emphasis will be given to the interpretation of the results secured from evaluative technique.

812. Advanced Statistics in Education and Psychology. Prerequisite: Education 515 (715) or equivalent. *Mr. Aaron, Mr. Bledsoe, Mr. Greene,* or *Mr. Scott.*

Statistics of inference, sampling techniques, analysis of variance and co-variance, introduction to principles of experimental design.

816. Methods of Formal Research in Education. *Mr. Bledsoe* and *Mr. Greene.*

This course is designed to develop the research competencies involved in the planning, conducting and reporting of master's theses, doctoral dissertations and similar formal research projects in Education. This course is required of all candidates for the degree of Master of Arts (Education) and must be completed before the student is permitted to register for Education 930.*

818. Evaluation in Education. (No credit allowed if student has credit for Education 615). Prerequisites: Four courses in education and consent of the instructor. *Mr. Bledsoe, Miss Cox, Mr. Greene, Mr. Morris, Mrs. Sutton,* and *Mr. Perrodin.*

A course dealing with the construction and application of various types of evaluative instruments: check lists, rating scales, anecdotal records, questionnaires, projective techniques, standardized and non-standardized tests.

826. Methods of Applied Research in Education. *Mr. Bledsoe* and *Mr. Greene.*

Designed to develop the research skills and related competencies involved in the planning, conducting and reporting of applied research studies of the type required of all candidates for the degree of Master of Education and must be completed before the student is permitted to register for Education 921.**

900. Thesis and Dissertation Seminar. Non-credit. Prerequisites: Four courses in education and advanced graduate standing. *The Staff.*

All candidates for graduate degrees will enroll for this course without credit. Opportunities will be provided for critical consideration of investigation being made by graduate students majoring in education.

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*Under exceptional circumstances, upon recommendation of major professor and with approval of the Dean, Education 826 may be substituted for 816 if the training needs of the student seem to justify same.

**Under exceptional circumstances, upon recommendation of major professor and with approval of the Dean, Education 816 may be substituted for 826 if the training needs of the student seem to justify same.

916, 917, 918. EDUCATIONAL RESEARCH. 5-15 hours. Prerequisites: Four courses in education and graduate standing. *Authorized members of College of Education Staff.*

These courses provide opportunity for the student doing advanced graduate work to carry on individual investigation in the fields of his specialization under the guidance of the faculty member or members particularly qualified in the field under consideration.

921. LABORATORY IN APPLIED EDUCATION. Prerequisites: Four courses in education. *The Staff.*

Designed to provide opportunities for advanced students to undertake functional studies of topics or problems in education significantly related to their professional tasks. For most students it will involve supervised work in the attempt to solve one or more practical school problems related to their normal duties.

EXCEPTIONAL CHILDREN

507. EDUCATION OF CHILDREN WITH MOTOR HANDICAPS AND SPECIAL HEALTH PROBLEMS. *Mr. Force.*

Nature, causes and educational implications of motor handicaps (including cerebral palsy and special health problems); selection of individual and group activities; methods and means of coordinating the school, medical, and therapy programs.

508. EDUCATION OF CHILDREN WITH RETARDED MENTAL DEVELOPMENT. *Mr. Force.*

Nature, causes and types of mental retardation; psychology of the retarded; instructional planning, grouping, and techniques for the education of the retarded; review and evaluation of programs for children with retarded mental development.

509. EDUCATIONAL DIAGNOSIS AND TREATMENT OF EXCEPTIONAL CHILDREN. Prerequisite: Education 304. *Mr. Force.*

Techniques employed by various specialists in an educational guidance program. The diagnosis and treatment of unusual children and of special disabilities such as reading difficulties and speech disorders. Laboratory work in educational diagnosis and apprenticeship in case treatment required.

510. PRINCIPLES AND METHODS OF TEACHING EXCEPTIONAL CHILDREN. Prerequisite: Education 304. *Mr. Force.*

Various methods which are used in teaching the mentally defective, the gifted, and problem children. Opportunity for observation and study of typical cases in school situations.

GUIDANCE AND COUNSELING

420. FUNDAMENTALS OF A GUIDANCE PROGRAM. (No credit allowed if student has credit for Education 621, 622, 672, or 872.) *The Staff.*

Designed for the purpose of identifying representative educational, vocational, and personal problems of individuals and planning a program of guidance service that will best assist individuals in solving these problems. A study will be made of each of the areas of guidance services and their relationships. This course is planned as an introduction to professional training for counselors and as an opportunity for teachers and principals to acquire an overview of guidance functions in the total school program.

521. ANALYSIS OF THE INDIVIDUAL. (No credit allowed if student has credit for Education 624, 625, or 872). *The Staff.*

Emphasis is placed on the study and use of techniques for discovering characteristics of individuals. Students registering for this course will be expected to develop competencies in recording, analyzing, correlating, and interpreting data as they relate to counseling.

523. COUNSELING. Prerequisites: Four courses in education and one course in guidance. *The Staff.*

Purpose is to provide opportunities for students to develop abilities for dealing with problems of individuals in counseling situations. Registrants will aid in making personal analysis to determine interview techniques to be used. The place of catharsis in psychotherapy and counseling will be investigated. Practice in using the interview in obtaining information, giving information, and changing attitudes will be provided.

524. EDUCATIONAL AND OCCUPATIONAL INFORMATION. Prerequisite: Four courses in education and consent of instructor. *The Staff.*

Comprises a study of the nature, sources and functions of information about educational and occupational opportunities, their relationship and use in assisting individuals to formulate comprehensive plans in these areas. An examination and evaluation will be made of techniques for discovering, collecting, filing, interpreting, and using this information in counseling. Practice in the use of these techniques will be emphasized. Making community surveys and follow-up studies will be considered as a means of securing pertinent information.

543. Counseling Practicum. Prerequisite: Education 740 and 742 and consent of instructor. *The Staff.*

Students will make comprehensive plans for counseling in the clinic under staff supervision. Each will have a case load under as near ideal conditions as possible. All skills developed in guidance preparations will be used. Counseling competence will be evaluated.

METHODS OF TEACHING

401. Problems in the Teaching of Reading. *Mr. Aaron, Mr. Callaway,* and *Mrs. Sutton.*

This advanced course in the teaching of reading will familiarize the student with the major causes underlying disability in reading and will guide him in planning a program that will to some extent prevent difficulties from arising. The student will be enabled, through observation and participation, to diagnose reading difficulties in the classroom and to plan a corrective program of instruction based on that diagnosis. Students will become familiar with the significant body of research that indicates the important recent trends in the field of reading.

496. Parent Education. (Also offered as Home Economics 496). Prerequisite: Home Economics 393 and 490 or equivalent. *Mr. Sperry.*

Working philosophy for parent education; skills in procedure and techniques for working with parents. Opportunity for observation and participation with parent groups, parent conferences, and home visitations.

517. Problems of Teaching. Prerequisites: Four courses in education. *Miss Burnham, Miss Cox, Mr. Jordon, Miss Moore, Mr. Scott, Mr. Singleton,* and *Mrs. Sutton.*

Places special emphasis upon instructional procedures and evaluation of teaching in terms of child growth. Growth and the child's ability to use the skills and his ability to adjust socially and in the use of his creative ability will be emphasized.

566. Journalism in the Secondary School. (Also offered as Journalism 566.) *Mr. Tyus Butler, Mr. Drewry,* and *Mr. Kitchens.*

A survey of news gathering, news writing, copy reading, typography, and business management, with specific relation to the high school newspaper. Also school public relations.

581. (French or Spanish). Problems of Teaching Romance Languages. Prerequisite: French or Spanish 201-202 or 15 hours of education in addition to French or Spanish 104. *The Staff.*

History of method, psychology of language learning, values, objectives, teacher's library, technique of oral work, pedagogy of phonetics, phonetics applied to grammar, pedagogy of vocabulary, tests and measurements. Evaluation of texts, course intent.

604. Guiding the Reading of Children. *Mrs. Dolvin.*

The study of literature and methods of reading guidance for children is based upon a careful consideration of their needs and interests. Books are discussed in relation to broad areas of interest. By means of individual projects, emphasis may be placed upon the problems of particular students.

731. Problems in Vocal Music Education. 3 hours. *The Staff.*

Detailed study of voice problems from classroom point-of-view, beginning in elementary and continuing through secondary school; techniques used in choral ensembles; evaluation of present concepts and practices.

732. Problems in Instrumental Music Education. 3 hours. *The Staff.*

Study of techniques used for development of the instrumental music program, beginning in elementary and continuing through secondary school; diagnosis of problems relating to strings, woodwinds, brasses, and percussion instruments.

733. Music Administration and Curriculum. 3 hours. *The Staff.*

Development of music curriculum as part of general educational planning; evaluation of school curricula and how music can become a functional part; problems in music administration, personnel, finances, and equipment.

734. Choral Music Materials. 3 hours. *The Staff.*

Study of music literature available for use in public schools at all levels of instruction; research in materials of various schools of composition and mediums which can be adapted for school use.

735. Instrumental Music Materials. 3 hours. *The Staff.*

Evaluation of present materials available at all levels of instruction; research in materials of various mediums and schools of composition which can be adapted for school use.

767. Diagnostic and Corrective Techniques in School Subjects. Prerequisite: For advanced students well grounded in basic techniques in teaching. *Mr. Jordan* and *instructors depending on the school subject involved.*

A study of techniques involved in locting blocks to the learning of children, and of procedures for overcoming such difficulties. Separate sections will be formed for the different school subjects and different age levels. A large amount of practice and individual investigations will be required. A mastery of the literature of experimentation in a given field will be expected.

PHILOSOPHY OF EDUCATION

803. Philosophy of Education. Prerequisites: Four courses in education and consent of the instructor. *Mr. Morris.*

Problems of educational aims and values; sources of a science of education; a study of the major philosophic schools of thought in education; education for a changing social order; the new philosophy and the school; the new curriculum; reconstruction of educational ideas.

PLANNING EDUCATIONAL PROGRAMS

W560-W760. Educational Planning and Development. Workshops. *The Staff.*

The primary purpose of these workshops is to prepare selected school personnel for participating in programs of educational planning and development. The participants will have an opportunity to formulate plans for carrying on educational development of programs at the local school and county level and in special areas. A maximum of three workshops (15 hours) may be taken by any one registrant.

The area of specialization of the registrant will determine which workshops are appropriate for him. Areas are indicated by the following:

Curriculum, Agriculture, Home Economics, Health & Physical Education, Elementary, High School, Industrial Arts, Business Education, Library Service, Art Education, Music Education, Evaluation, Research and Measurements, Audio-Visual Aids, Resource Use, Nutrition Education, Speech Correction, Administration, Supervision, Counseling, Visiting Teacher, Supervising Teacher, Apprentice Teaching, and Corrective Techniques in School Subjects.

SPEECH CORRECTION

Additional required and elective courses for students majoring in speech correction may be found under the Department of Speech and Drama and the Department of Psychology.

474. Voice and Articulatory Disorders of Speech. (Same as Speech 474.) Prerequisite: Speech 470. *The Staff.*

Etiology and the rationale and methods of therapy for functional and organic disorders of voice and articulation. The development of a therapeutic program and lesson plans. Supervised clinical practice in voice and articulatory disorders with individuals and groups.

476. Stuttering: Etiology and Therapy. (Same as Speech 476). Prerequisite: Speech 470. *Mr. Luper.*

Major theories of causation of stuttering, whether based in neurophysiological, emotional, or learning factors. The development of an integrated therapy based on modern research in stuttering. Supervised clinical practice in individual and group therapy for stutterers.

534. Classroom Problems in Speech Correction. (Atlanta Area Teacher Education Service only.) Prerequisite: Four courses in Education. *Mr. Hayes.*

Designed for the classroom teacher. The scope of the problem of defective speech, the common etiologies, identification of speech defects, and role of the teacher in referral, examination and correction. Clinical demonstrations in cooperation with the Junior League School for Speech Correction.

535. (Speech) Directed Individual Study in Speech Correction. Prerequisite: Four courses in Speech Correction. *Mr. Luper.*

Adaptation of the speech correction curriculum to the individual needs of mature students. A detailed outline of requirements must be prepared in conference by the student and instructor and approved by the Chairman of Speech Correction.

536. (Speech) Directed Individual Study in Speech Correction. Prerequisite: Four courses in Speech Correction. *Mr. Luper.*

Outline of work must be approved in the same manner as for Education 735, but content must be different.

537. (Speech) Seminar in Speech Pathology. Prerequisite: Six courses in speech correction or four courses and consent of the instructor. *Mr. Ainsworth.*

Intensive and thorough exploration of the research and theory in one or more areas of speech pathology. Specific content in any one quarter will be adapted to the particular needs of the students. Group projects may be carried in addition to readings and lectures.

538. Program Administration and Clinical Practice in Speech Correction. Prerequisite: Speech 470 and one content-clinical practice course in speech correction. *Mr. Ainsworth.*

Methods for finding, selecting and scheduling speech cases in the public schools. The organizational and administrative problems in keeping records, reporting, and coordinating speech correction activities. Basic plans for various sizes of schools and school organizations. Supervised clinical practice with a variety of speech problems.

539. Advanced Clinical Practice in Speech Correction. Prerequisite: Six courses in speech correction and 200 clock hours of supervised clinic practice. *Mr. Luper.*

Gives the advanced student an opportunity to work with more complex and difficult problems of speech combined with intensive readings, conferences, and discussions regarding therapy for the specific types involved in the clinical practice.

835. (Speech) Organic Disorders of Speech. Prerequisite: Six courses in speech correction. *Mr. Ainsworth.*

Pathologies affecting speech, the speech tests and therapy for cases of cleft palate, cerebral palsy, aphasia, laryngectomy and retarded speech. Role of the speech pathologist in the medical-psychological-education-speech therapist team for the rehabilitation of physically and emotionally handicapped individuals.

SPEECH AND HEARING CLINIC

The Services of the Speech and Hearing Clinic are available to individuals who have speech or hearing problems. The clinic functions as part of the training program in Speech Correction. Those interested in receiving help should contact Dr. Stanley Ainsworth.

EDUCATION SUPERVISION

730. Supervision of Teaching. Prerequisites: Four courses in education and consent of the instructor. *Miss Burnham, Miss Cox, Mr. Singleton,* and *Mr. Smith.*

Open to supervisors, teachers, administrators, and curriculum workers. The course includes a comprehensive study of all social institutions engaged in the instructional process. The work emphasizes ways and means of improving instruction through an actual attack on selected instructional problems.

732. Seminar in Supervision. Prerequisites: Three courses in supervision and consent of instructor. *Miss Burnham* and *Miss Cox.*

For supervisors at an advanced graduate level. The purpose is to: (1) identify and make investigation into problems of supervision, (2) study research in supervision, (3) encourage experimentation in the use of supervisory procedures, and (4) stimulate writing for professional journals.

733. Seminar in Group Development. Prerequisites: One course in supervision, administration, or counseling and consent of instructor. *Miss Burnham* and *Miss Cox.*

For those persons engaged in leadership positions and interested in further training in group leadership. Major emphasis is placed upon: (1) developing an understanding of group process and increasing sensitivity to problems of group work, (2) improving behavioral skill in group leadership and membership roles, and (3) improving methods used in planning and conducting educational problems.

746. Internship. *Authorized members of the College of Education Staff. (Major Professor).*

A cooperative undertaking between the University of Georgia and school systems in the state. The purpose is to give the student carefully directed experience in selected schools. It is a study-work program. At least sixty hours are spent during the course in a class or conference type of activity where critical study is made of problems encountered by the intern; the remainder of the time is spent in applying the principles learned to the regular job. Contributing to this program are consultants from other teacher-education institutions, the State Department of Education, experienced supervisors, county superintendents, principals, and teachers.

747. INTERNSHIP. *Authorized members of the College of Education Staff.* (*Major Professor*).

A continuation of the study and practice begun in Education 746.

830. INVESTIGATION IN SUPERVISION. Prerequisites: Four courses in education and consent of instructor. *Miss Burnham, Miss Cox, Mr. Singleton, Mr. Smith,* and *Mrs. Sutton.*

Purpose is to give advanced graduate students an opportunity to do research on instructional procedures. Such problems as the comparison of two methods of teaching, the evaluation of instructional materials, or the evaluation of supervisory programs may be studied. Supervisors and those planning to enter supervisory work will find this course of practical assistance.

VOCATIONAL EDUCATION

763. PROBLEMS IN VOCATIONAL EDUCATION. Prerequisites: Four courses in education and consent of the instructor. *Miss Beall, Miss Moore, Mr. O'Kelley,* and *Mr. Tolbert.*

Designed to meet the needs of experienced teachers of agriculture, teachers of home economics, and school administrators who want additional training in specific problems of teaching. The course is planned so that students may work at their special interest, individually or in groups.

771. TEACHING PROCEDURES IN VOCATIONAL EDUCATION. Prerequisites: Four courses in education and consent of the instructor. *Miss Beall, Miss Moore, Mr. O'Kelley,* and *Mr. Tolbert.*

Designed to meet the needs of those teachers of vocational agriculture and home economics who desire guidance in improving teaching procedures. Consideration is given to the development of curricula based on the needs and interests of students, the organization of the curricula into teaching units, the planning of units for instruction, teaching and evaluation.

772. EVALUATION IN VOCATIONAL EDUCATION. Prerequisites: Four courses in education and consent of the instructor. *Miss Beall, Miss Moore, Mr. O'Kelley,* and *Mr. Tolbert.*

Has two primary purposes: (1) to guide teachers, supervisors, and administrators to develop the ability to evaluate departments and programs of vocational education in schools and communities, and (2) to guide teachers in the development of methods and techniques for evaluating their own instruction. Techniques for studying and evaluating departments are developed and used in evaluating one or more vocational programs in a selected school or schools. Consideration is given to setting up evaluative techniques for measuring student development and the application of these techniques to teaching situations.

773. SUPERVISION OF VOCATIONAL TEACHING. Prerequisites: Four courses in education and consent of the instructor. *Miss Beall, Mr. Duncan, Miss Moore, Mr. O'Kelley,* and *Mr. Tolbert.*

Major emphasis is placed upon the following: (1) developing a point of view or philosophy of teacher education; (2) analyzing the present teacher training program in vocational education in Georgia, to discover problem situations that may be used as a basis for teacher education programs, (3) determining the relative emphasis that each teacher-training agency should place upon the solution of the several problems in the teacher-education program, and (4) projecting plans for an apprentice training program.

871. ADULT EDUCATION. Prerequisites: Four courses in education and consent of the instructor. *Miss Beall, Miss Moore, Mr. O'Kelly,* and *Mr. Tolbert.*

The primary purposes are: (1) to develop a philosophy of adult education, (2) to develop techniques for discovering adult problems, and (3) to discover and apply appropriate methods of organizing and teaching adult groups. The course is designed to meet the needs of experienced teachers, rural school supervisors and administrators, and other adult leaders.

C. Industrial Arts.

20. GENERAL SHOP. One single and four double periods. *Mr. Harrison, Mr. Pollock,* and *Mr. Nix.*

A general survey course for acquainting the student with a wide variety of materials, tools, and procedures.

22. BEGINNING WOODWORK. One single and four double periods. *Mr. Pollock* and *Mr. Nix.*

Includes the planning, construction, and finishing of industrial arts woodworking projects.

133. Industrial Arts for Teachers. One single and four double periods. *Mr. Pollock* and *Mr. Nix.*

A course designed for persons majoring in education and planning to teach. Emphasis is placed on the use of tools, materials, and procedures for classroom work.

150. Industrial Arts Drafting. One single and four double periods. *Mr. Harrison, Mr. Pollock,* and *Mr. Nix.*

A course in which a study is made of reading and writing a graphic language. A portion of the time will be devoted to developing working drawings which have application to industrial arts projects.

323. Industrial Arts Design. One single and four double periods. *Mr. Harrison.*

A course in which good industrial arts designs are studied and the principles underlying good design are applied to plans developed by the students.

324. Metal Work. One single and four double periods. *Mr. Harrison, Mr. Pollock,* and *Mr. Nix.*

A course in metal in which the use of hand tools with skill is emphasized. The course includes the planning, construction, and finishing of industrial arts projects in metal.

325. Advanced Woodwork. One single and four double periods. *Mr. Harrison* and *Mr. Pollock.*

A continuation of beginning woodwork with more emphasis on power machinery.

326. Materials and Mathematics of Industry. *Mr. Pollock.*

Common materials of industry and the methods employed by industry in producing these materials. Determining sizes and costs of materials. Problems will be introduced in board foot measure, gear ratio, determining shop speeds for various machines and other computations directly related to industrial arts work.

328. Advanced General Shop. One single and four double periods. *Mr. Harrison.*

A continuation of Industrial Arts 20 in which the student works on advanced projects and gains experience in carrying on a general shop program.

330. Advanced Drafting. One single and four double periods. *Mr. Harrison* and *Mr. Pollock.*

A continuation of beginning drafting. Advanced problems in drafting and machine design are studied.

332. Industrial Arts and Handcraft for Teachers. One single and four double periods. *Staff.*

A course designed for leaders in popular arts and crafts. Thought will be given to the place and type of industrial arts suitable for adults, camp counselors, teachers, homemakers, and others interested in creative activities.

340. Machine Drafting and Design. One single and four double periods. *Mr. Harrison.*

Advanced problems will be developed in drafting, such as shape description, auxiliaries, sections, layouts, isometrics, and perspective.

510. Principles of Industrial Arts Education. *Mr. Harrison.*

A course which will include the history, principles, function, organization, and evaluation of industrial arts education.

550. Organization of Subject Matter in Industrial Arts. *Mr. Harrison.*

Necessary consideration will be given to the selection, organization, presentation, and interpretation of subject matter in industrial arts. Students will work out job plans, various instruction sheets, course content and plan curriculums. Various industrial arts activities will be analyzed and appraised.

560. Administration of Industrial Arts. *Mr. Harrison.*

Interpretation of industrial arts curricula in terms of school and community needs. Organization and reorganization of shop programs. Cost accounting of materials, equipment, supplies, and housing. Care and repair of tools and equipment. The duties of the industrial arts administration and supervisor. Shop planning and layouts.

570. Special Problems in Industrial Arts. *Mr. Harrison.*

Designed primarily for experienced industrial arts teachers who feel a need for improving their curriculum and teaching procedures. A student may broaden and intensify his training in a particular area of interest.

580. Seminar in Industrial Arts and Handcrafts. *Mr. Pollock.*

Advanced study in industrial arts and handcraft. Research and experimentation in selected areas of the industrial arts, such areas to be selected by the student in conference with the instructor.

D. Library Education

L.E. 303. Utilization of Library Materials. Prerequisites: Senior-college standing and consent of instructor. *Mrs. Broadhurst.*

An introduction to the use of dictionaries, encyclopedias, indices, and similar reference books commonly found in the small library. Attention will be given to the use of the library as an information laboratory for the school or for the community. Practice problems in answering reference questions will be assigned.

L.E. 304. Organization of Library Materials. Prerequisites: Senior-college standing and consent of instructor. *Mrs. Broadhurst.*

A course to acquaint the student with the fundamental principles of the organization of small libraries, with particular emphasis on the uses of printed catalogues and catalogue cards. Author entries, simple collation, subject headings, abridged Dewey Decimal Classification, and rules for filing will be included.

L.E. 305. Administration of a Small Library. Prerequisites: Senior-college standing and consent of instructor. *Mrs. Broadhurst.*

A course to acquaint the student with overall relationships between the library and the institution of which it is a part. Problems of building, supplies, accounting, records and reports, personnel, discipline, and routines will be discussed.

L.E. 406. Experiencing Literature with Children and Adolescents. Prerequisite: Education 335, 336 and two additional approved courses in Education. *Mrs. Broadhurst.*

A consideration of the literature suitable for children and adolescents, with special attention to reading interests at the various age levels. Extensive reading and examination of standard and current books will be required of all students. The completion of special problems will be an added requirement for graduate students.

L.E. 501. Library Guidance for Teachers and Administrators. Prerequisite: Education 335, 336, and two additional approved courses in Education. *Mrs. Broadhurst.*

A non-technical course for prospective teachers, and administrators interested in the relation of the school library to modern teaching methods, and designed primarily to inform them of library methods in their special fields. All types of enrichment materials are included and bibliographic work is introduced through problems chosen by the students. The completion of special problems will be required of students of graduate standing.

L.E. 502. Principles of Book Evaluation. Prerequisites: Education 335, 336, and two additional approved courses in Education. *Mrs. Broadhurst.*

An introduction to the principles of evaluating books in terms of the clientele of the library for which they are to be purchased, with special emphasis on the school library and the small public library. Problems in the use of reviewing and indexing publications will be used in acquainting students with methods of selecting books for purchase. The completion of special problems will be added requirement of graduate students.

E. Health and Physical Education.

Service Courses

1-2. Physical Education. 10 hours.

Women. Three hours a week for six quarters. Physical Education Building, South Campus. *Physical Education Staff.*

Women students may select activities which best meet their special needs and interests, based upon their health, organic fitness and previous experience in physical education. The activities include adapted physical education, archery, badminton, basketball, bowling, fencing, fundamentals of movement, golf, hockey, life saving, recreational sports, soccer, softball, swimming, water safety instructors course, tennis, tumbling, volleyball.

Men. Two hours a week for six quarters. Stegeman Hall. *Physical Education Staff.*

Minimum physical fitness standards must be met during the freshman year as determined by physical fitness test. A swimming test will be administered at the start of the fall quarter. Activities include touch football, soccer, speedball, basketball, volleyball, softball, tumbling, apparatus, trampoline, weight training, tennis, badminton, handball, golf, track and field, bowling, and special classes for those students with disabilities who are in need of a limited program.

Professional Courses

PHYSICAL EDUCATION

1x-2x. PHYSICAL EDUCATION (Majors, men). Three hours a week for six quarters. Stegeman Hall. *Physical Education Staff.*

These courses parallel Physical Education 1-2. Designed for Physical Education and Recreation Majors as introductory courses to Physical Education 40a-b-c and Physical Education 381a-b-c.

40a-b-c. SKILL TECHNIQUES FOR MEN: 9 hours (3 hours a quarter. Five periods a week required). Stegeman Hall. *Mr. Gabrielsen.*

Demonstrations and practice, including methods and techniques, in teaching such activities as apparatus, tumbling, stunts and pyramids, swimming and diving, life saving, water shows, golf and tennis.

253a-b-c. PHYSICAL EDUCATION ACTIVITIES. 9 hours (3 hours a quarter). Prerequisite: One quarter in activity engaged in or permission of instructor. South Campus. *Miss Bibza, Miss Lewis,* and *Miss Russell.*

a. Theory and practice of soccer and speedball for girls.
b. Rhythmic analysis of physical education activities.
c. Teaching and coaching methods in tennis and archery. Advanced techniques and officiating methods. Organization of tournaments.

307. PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL. South Campus. *Miss Russell.*

Designed to help the teacher plan, teach, and evaluate physical education activities based upon an understanding of the unique contribution of physical education to the developing child. Learning sequences and teaching methods in fundamental physical education skills are given, followed by actual teaching experiences.

311. FUNDAMENTAL MOTOR SKILLS. 3 hours. South Campus. *Miss Lewis.*

Methods and techniques in motor skills. Opportunities are provided for experiences conducting these physical education activities. Knowledge of resource materials.

315. AQUATICS. 3 hours. Prerequisite: Intermediate swimming or the consent of the instructor. South Campus. *Miss Lewis.*

Prepares students for the American Red Cross Instructor's Water Safety Course, for conducting swimming meets, and for presenting water shows. Recommended to students who are interested in camping activities.

352a-b-c. TEAM SPORTS FOR WOMEN. 9 hours (3 hours a quarter). Prerequisite: One quarter of each sport or consent of the instructor. South Campus. *Miss Lewis* and *Miss Russell.*

Teaching, coaching, and officiating methods in volleyball, basketball, and softball. Actual experience in teaching in class and officiating in intramural games. The Women's National Official Rating Examination will be given in volleyball and basketball.

360. KINESIOLOGY. Prerequisite: Zoology 312a. South Campus. *Miss Keaster.*

Analysis and application of the physical and physiological principles involved in human motion. Physical laws governing the manipulation of objects in sports are studied.

361. THERAPEUTICS OF EXERCISE. Prerequisite: Physical Education 360. South Campus. *Miss Keaster.*

The techniques of appraisal and guidance of pupils with faulty body mechanics, orthopedic defects and other atypical conditions. Practice is given in the therapeutic use of exercise, massage, relaxation, and other physical modalities.

372. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION. Memorial Hall. *The Staff.*

A survey of the history and study of principles and trends in health, physical education and recreation, professional organizations, literature, and outstanding programs.

376. ORGANIZATION AND ADMINISTRATION. (Same as Education 336.3). North and South Campus. *Mr. Gabrielsen* and *Miss Russell.*

Deals with the organization and administration of physical education and recreation programs in the school. Planning the curriculum in physical education as a part of the total school program.

380a-b-c. THEORY, COACHING METHODS, AND OFFICIATING OF MAJOR SPORTS. 9 hours, (3 hours each quarter). Prerequisite: Senior level standing. Stegeman Hall. *Coaching Staff.*

Theory and coaching techniques of major sports including football, basketball, baseball, and track. Various coaching systems, stressing their strong and weak points.

the study of the various positions of the teams, as well as scheduling, transportation, diets, publicity, and other administrative problems are covered. Participation in planning of University Intramural Sports program, as well as officiating in the various sports, will be included.

381a-b-c. SKILL TECHNIQUES FOR MEN. 9 hours (3 hours each quarter. Five periods a week required). Stegeman Hall. *Physical Education Staff.*

Demonstration and practice in teaching methods and techniques in such activities as volleyball, badminton, handball, combatives, calisthenics, marching, relays, games of low organization, speedball, soccer, archery, table tennis, paddle tennis, deck tennis, squash, and apparatus.

383. EVALUATION AND MEASUREMENTS. 3 hours. Stegeman Hall. *Mr. Tews.*

Methods in evaluating and testing physical education activities; procedures to be used in evaluating these tests and their results, including statistical analysis, are considered.

513. PHYSICAL EDUCATION IN THE SCHOOL PROGRAM. Prerequisite: Four courses in education. South Campus. *Mr. Gabrielsen, Mr. Smith, Mrs. Soule.*

Designed to help teachers and administrators to evaluate and understand the place of physical education in education. The needs of students, both individuals and group, programs, equipment, facilities, and their relation to the school and the community are studied.

714-715. (WORKSHOP). PROBLEMS IN HEALTH, PHYSICAL EDUCATION AND RECREATION. 5 hours to 10 hours. South Campus. *Mr. Gabrielsen, Mr. Smith,* and *Mrs. Soule.*

A course of the workshop type dealing with the problems met in the development of a comprehensive program of health education, physical education and recreation in the school and school community. Special emphasis on problems identified by the student.

HEALTH EDUCATION

19. FIRST AID AND TREATMENT OF ATHLETIC INJURIES. 3 hours. Stegeman Hall. *Mr. Bowen.*

Problems and practical applications in first aid and the common injuries received in athletic participation.

344. PROBLEMS IN SCHOOL HEALTH EDUCATION. South Campus. *Miss Keaster.*

A course for the classroom teacher in the principles, materials, and methods of school health education. Teacher's role in securing a healthful environment, health appraisal, guidance, and instruction is studied.

370. SCHOOL HEALTH EDUCATION. South Campus. (Same as Education 335.3). *Mrs. Soule.*

Techniques in recognizing health needs and interests of people in relation to their environment. Pupil experiences and materials to meet these needs. Integrating classroom health activities with health resources in the community.

371. PERSONAL AND COMMUNITY HEALTH PROBLEMS. South Campus. *Mrs. Soule.*

Current information in the areas of personal health, communicable diseases control, etc., as these apply to healthful living for individuals and groups.

511. HEALTH EDUCATION IN SCHOOL AND COMMUNITY. Prerequisite: Four courses in education. South Campus. *Mr. Gabrielsen, Mr. Smith,* and *Mrs. Soule.*

Analysis of problems in health education as they pertain to children in school and out of school, and to adults; the place of the classroom teacher and the school administrator in health program. Opportunity for independent study.

577. SAFETY EDUCATION. Stegeman Hall. *Mr. Bowen.*

Deals with the problems, policies, principles, and methods involved in safety and accident prevention programs, as well as the programs of traffic safety and the teacher driver education and training in high schools. Individuals completing this course will be certified as driver education instructors by the State Department of Education. A charge of $2.50 will be paid by each enrollee to cover expenses.

714-715. (WORKSHOP). PROBLEMS IN HEALTH, PHYSICAL EDUCATION AND RECREATION. 5 or 10 hours. *Mr. Gabrielsen, Mr. Smith,* and *Mrs. Soule.*

A course of the workshop type dealing with the problems met in the development of a comprehensive program of health education, physical education, and recreation in school and school community. Special emphasis on problems identified by the student.

RECREATION

18. Social Recreation. 3 hours. Stegeman Hall. *Mr. Lawson.*

Methods and materials in social recreation including mixers, quiet games, planning of parties and special holiday celebrations for the various age groups. Experience will be given in group planning of social activities and conducting these activities. Some laboratory experiences will be required.

384. Interpretation of Recreation. 3 hours. Stegeman Hall. *Mr. Gabrielsen.*

Designed to familiarize the students with the recreation profession. Foundations are laid for a wholesome philosophy of American recreation. A survey of the entire field of recreation is made to acquaint students with the opportunities and responsibilities that are found in recreation.

385. Problems in Rural Recreation. 3 hours. Stegeman Hall. *The Staff.*

Recreational needs in rural areas. Ways of coordinating efforts of local agencies. Opportunities given to participate in and observe programs.

386. Camp Leadership. 3 hours. Stegeman Hall and South Campus. *Mr. Lawson* and *Miss Perry.*

Designed to give prospective camp counselors an understanding of the total camp program, duties and responsibilities of camp counselors; techniques of camp leadership.

387. Community Recreation. 3 hours. Stegeman Hall. *Mr. Gabrielsen.*

Problems arising in the organization, promotion, and administration of community recreation programs. Observation of community recreation programs. Consideration of state and Federal programs are made in light of their possible contributions to local programs. The problem of coordinating the efforts of the schools and private agency and commercial recreation is studied.

512. Problems in School and Community Recreation. Prerequisites: Four courses in education. Stegeman Hall. *Mr. Gabrielsen, Mr. Smith,* and *Mrs. Soule.*

Problems of school and community recreation pertaining to philosophy, program, facilities, and leadership.

THE COLLEGE OF BUSINESS ADMINISTRATION

JAMES EDWARD GATES, B.S., Ph.D., *Dean*

ROBERT TAYLOR SEGREST, B.S.C., M.S.C., *Associate Dean*

ORGANIZATION AND PURPOSE

The College of Business Administration was authorized by the Board of Trustees in 1912 and began operations in 1913. For many years it was called the School of Commerce. Since 1926 the College has been a member of the national standard-setting organization, The American Association of Collegiate Schools of Business.

The primary aims of the College are to provide a foundation of general culture, to broaden the viewpoint and develop sound thinking and, at the same time, to supply practical training for students who wish to prepare for business and commercial careers. This training includes many courses designed to provide an understanding of the history and general principles that underlie the present economic organization of society, as well as courses devoted to special subjects of a technical character. Fields covered are accounting, aeronautical administration, general business, economics, finance, industrial relations, marketing, public administration, insurance and real estate, public utilities and transportation, secretarial studies, economic statistics, and retailing.

The curriculum of the College, however, is by no means restricted to purely economics and business courses. The requirement of the American Association of Collegiate Schools of Business is that at least 40 per cent of the credit hours required for graduation must be in liberal or cultural courses. A list of courses of this character, so essential in the training of a well rounded college graduate, will be found under Degree Requirements. The degree of Bachelor of Business Administration is awarded upon completion of the four-year course.

EQUIPMENT

The College is housed in a modern, commodious, and attractive building, constructed for the joint occupancy of the College of Business Administration and the School of Journalism. In 1948 a large addition was made to the building and the interior of the other portion was remodeled to provide necessary facilities for the increasing enrollment.

The College of Business Administration is equipped with the various types of machines common in business: adding machines, bookkeeping machines, mimeograph equipment, and dictating machines. In addition, International Business Machines Corporation equipment is available for instructional purposes in the laboratories. The latest types of this punch card accounting machinery are included, such as sorters, punches, tabulators, and summary punches. Alphabetical punch card equipment has recently been added to the numeric machines.

TRANSFER STUDENTS

The first two years of a number of University curricula often provide for general courses, such as History 110x-y, (History of Western Civilization), English 22x-y, (Survey of European Literature), and others shown below as required in the curriculum of this College. Students who transfer with less than junior standing and without credit for the general courses required in this curriculum will be required to take them here unless they have credit for courses of equal value in the same fields.

In the case of students who transfer with junior standing from standard

colleges without these general courses, provisions are made for substitution of courses in the same fields. The junior-senior courses are arranged so that a student who has completed the freshman and sophomore years at a standard institution with satisfactory grades can ordinarily complete the Bachelor of Business Administration degree requirements in six quarters.

Where a prospective student is in doubt as to the manner in which this rule works a letter of inquiry should be sent to the Dean, College of Business Administration.

CREDIT HOURS REQUIRED FOR GRADUATION

A grade of "D" or "D plus," while giving hours credit, is considered by the faculty of the College of Business Administration to represent inadequate accomplishment in pursuing the specialized courses required for the B.B.A. degree. Candidates for the degree must earn at least a grade of "C" in the core curriculum (30 hours) and in the courses required in the major concentration group (30 hours). Should a student receive a grade of "D" or "D plus" in any course that is prerequisite to another, he can register for the second course before he achieves the necessary minimum grade on the prerequisite only with permission of his major professor.

BUSINESS PRACTICE

The College of Business Administration with the cooperation of certain business firms has arranged for a few carefully selected students to obtain actual experience in business while still pursuing work toward the degree of Bachelor of Business Administration. Such students, upon the recommendation of the professor in charge of the major concentration group, may, with the approval of the Dean of the College and the College Executive Committee, be permitted to enter a cooperating business establishment in Atlanta or other city and spend a quarter in learning first hand something of the operation of the business. This arrangement is limited to selected students within 55 hours of graduation. A maximum of fifteen hours of elective credit will be given for the quarter. While absent from the University the students will be under supervision of their major professors. Grades for this work will depend upon the report by the head of the business as well as upon such written reports as may be required from the student.

Application for permission to register for business practice (Business Administration 340) must be made through the student's major professor during the quarter preceding the planned registration. Students approved for this privilege will be required to register in the usual way and pay the prescribed fees.

ORGANIZATIONS

The national honor society for students of schools of business, Beta Gamma Sigma fraternity, has a charter in practically every member institution of the American Association of Collegiate Schools of Business. The Alpha chapter of Georgia was the sixth established of the fifty-six chapters now active. The purpose of this fraternity is to encourage and reward scholarship and achievement. Every year about ten percent of the seniors are awarded the Beta Gamma Sigma key.

Business Administration students are eligible for election to The Honor Society of Phi Kappa Phi, and those who have a large proportion of their work in liberal arts subjects, including economics, are eligible for election to Phi Beta Kappa.

The College also has chapters of the three leading professional organizations for students of schools of business, the Alpha Kappa Psi, the Delta Sigma Pi, and the Phi Chi Theta fraternities. Delta Sigma Pi awards annually a key to the most distinguished Business Administration graduate of the year, while Phi Chi Theta awards a key to the most distinguished

woman graduate, and Alpha Kappa Psi awards a gold key each year to the member of the senior class of the College of Business Administration who has the highest scholastic average for four years of college work, at least two years of which has been taken at the University of Georgia.

The Economics Society is an organization in which membership is open to all students enrolled in the College of Business Administration who have an average grade of "C" or better. Students enrolled in other colleges who are interested in economics are invited to become members.

BUREAU OF BUSINESS RESEARCH

The College of Business Administration established a Bureau of Business Research in 1929. A program of research on specific economic and business problems of Georgia is carried on by both faculty members and students of the College.

A monthly report on Retail Trade Trends in Georgia is prepared, showing variations for twelve kinds of businesses. Separate trends are calculated for Atlanta, Augusta, Columbus, Macon, Savannah, and Albany. Approximately 700 stores cooperate by supplying monthly reports of their retail sales to the Bureau of Business Research. This program is carried on in cooperation with the Bureau of the Census.

Georgia Business, a monthly review of business activity, is published by the Bureau. Statistical indexes showing changing economic conditions in the United States with particular attention to the effects upon Georgia are summarized. The bulletin is available without charge to citizens of Georgia.

Currently the Bureau of Business Research is devoting special attention to developing research facilities for use by the students and faculty of the College of Business Administration. The Bureau cooperates with state and federal agencies and others in conducting studies and distributing information on problems of economic interest to Georgia.

EXECUTIVE DEVELOPMENT PROGRAM

Beginning in 1951 the College of Business Administration inaugurated a program in executive development, designed to provide training for executive positions, of the type not ordinarily available in individual companies. In the summer of 1953 there was begun the first "live-in" program, four weeks in duration. Executives nominated by their own companies receive intensive training, designed to supplement existing company plans for training on-the-job.

THE CO-OPERATIVE PLAN

Students in the College of Business Administration may attend under the co-operative plan. Under this plan the student attends school in alternate three-months periods, being placed during the off quarters in positions with industry and business, where he receives valuable work experience. In addition to this experience, the salaries received while working may assist him greatly in paying the cost of his college education.

Students in the co-op program pursue the same program of study as those in the usual four year program. Normally it will require about five years to graduate under the co-op plan. This additional year is not lost however, since it has been spent in getting valuable on-the-job experience.

For further information and literature, including application blanks, a letter should be addressed to the Director, Co-Operative Program, College of Business Administration, University of Georgia.

SCHOLARSHIPS AND LOAN FUNDS

The Delta Air Lines Scholarship. An annual award of $300 is provided by Delta Air Lines to a selected junior majoring in aeronautical administration. It is available for both junior and senior years for the winner.

THE ATLANTA FEDERAL SAVINGS SCHOLARSHIP. Two scholarships of $500 each are awarded annually by the Atlanta Federal Savings and Loan Association to graduates of Atlanta and Fulton County high schools. One scholarship goes to a high school graduate on the basis of financial need and high school record. The other scholarship goes to a senior on the basis of financial need and college record. Application should be made to the Dean of the College of Business Administration by July 1.

Loan funds are available for deserving students. Application should be made to the Director of Placement and Student Aid at least one month before the time the funds will be needed.

GRADUATE STUDY

In the Graduate School of the University the degrees of Master of Business Administration and Master of Arts are offered.

The Master of Business Administration is a professional degree designed for students intending to enter directly into business. Requirements are flexible to meet the needs of graduates of liberal arts colleges as well as professional and technical schools. A program of four quarters of graduate work will be necessary for applicants holding the B.B.A. degree or its equivalent and from four to six quarters for applicants holding degrees in other fields. Neither a thesis nor a reading knowledge of a foreign language is required under this program. At least fifteen hours of each student's program must be in courses numbered 800 and above.

Through special arrangement with the School of Journalism the degree of Master of Business Administration may be taken as a combination curriculum of the School of Journalism and the College of Business Administration, leading to the degree of A.B. in Journalism in four years, and the M.B.A. after an additional four quarters of study. This program is designed to aid those anticipating interpretative writing in economics and related fields, and also those who plan to work in the business of journalism. For details of this program see the bulletin of the School of Journalism.

Graduate training in research methods is provided by a program leading to the degree Master of Arts. The requirements for the Master of Arts degree are the satisfactory completion of a program of study which consists of courses carrying a minimum credit value of 40 quarter hours plus the writing of an acceptable thesis. The courses taken must form a logical whole. Upon the option of the students' major department, a reading knowledge of French or German may be required of candidates for the degree. Another modern foreign language may be substituted for French or German upon certification by the major professor that the language proposed is more appropriate to the students' program. The minimum residence requirement for the degree Master of Arts is one academic year, or three quarters.

DEGREE REQUIREMENTS

A total of 186 quarter hours, exclusive of Physical Education 1-2 and Military Science 1-2 or Air Science 5-6, is required for the Bachelor of Business Administration degree. Physical Education 1-2 is required of all freshmen and sophomore students except veterans. Military Science 1-2 or Air Science 5-6 is required of all freshmen and sophomore male students except veterans. Business Administration 1a-b-c is required of all freshmen and Business Administration 395 is required of all seniors in the College.

FRESHMAN AND SOPHOMORE REQUIREMENTS

	Hours
Business Administration 1 a-b-c	0
English 2x, 2y	10
Mathematics 101x or 101y	5
Laboratory Science (See Item 4 below)	10
Social Studies or Foreign Language (See Item 5 below)	10

History 100 or 110y (See Item 6 below)	5
English 22x, 22y	10
Political Science 1	5
Science (See Item 9 below)	5
Economics 5x, 5y	10
Business Administration 6x, 6y	10
Business Administration 8	3
Economics 33	5
Electives	8
Physical Education 1-2	0
Military Science 1-2 or Air Science 5-6 (for men)	0
Total freshman and sophomore academic hours	96

Junior and Senior Requirements

	Hours
Core Curriculum (Grades of C or better required)	30
Major (Grades of C or better required)	30
Business Administration 395	1
Electives	29
Total junior and senior requirements	90

Note: The candidate for the Bachelor of Business Administration degree is responsible for meeting the requirements as listed.

Hours

1. Business Administration 1 a-b-c, Orientation to Business. (Transfer students with sophomore standing are not required to have this course for the BBA degree.) — 0
2. English 2x, 2y, Composition — 10
3. Mathematics 101x, Algebra, or 101y, Trigonometry — 5
   Note: Students who have insufficient high school preparation or who for other reasons are deficient in their Mathematics are required to take Mathematics 99, a remedial course in algebra.
4. Laboratory Science — 10
   One double course to be selected from the following:
   Botany 21-22
   Chemistry 21-22
   Geology 25-26
   Physics 20-27 or 28
   Zoology 25-26
5. Social Studies or Foreign Language — 10
   Students who elect Social Studies must take two courses from the following:
   Anthropology 102—Man and His Culture
   Geography 101—World Human Geography
   Philosophy 104—Introduction to Philosophy
   Psychology 1—Introduction to Psychology
   Social Science 4—Contemporary Georgia
   Sociology 5—Introduction to Sociology

   Students who elect foreign language must take two courses in one language. A student continuing a language taken in high school will be placed in the appropriate course on the basis of placement tests and other pertinent information.
6. History 100, Survey of American History or History 110y, History of Western Civilization — 5
   To be eligible for a degree from the University of Georgia a student must show evidence of a satisfactory knowledge of American and Georgia history. All incoming students will take an examination in these subjects during Freshman Orientation Week. Those who satisfactorily pass this examination will take History 110y.

Those who fail to satisfy this requirement by examination will take History 100.

7. English 22x, 22y, European Literature 10
8. Political Science 1, American Government 5
9. Science 5
   Select one from the following:
   Botany 10—Plant Biology and Man
   Geography 4—Earth Science Survey
   Geography 121—The Natural Environment
   Human Biology 1—Human Biology
10. Economics 5x, 5y, Economic Principles and Problems 10
11. Business Administration 6x, 6y, Principles of Accounting 10
12. Business Administration 8, Business Correspondence 3
13. Economics 33, Economic Development of the U. S. 5
14. Core Curriculum
    Economics 312, Elementary Economic Statistics 5
    Economics 326, Money and Banking 5
    Economics 360, Principles of Marketing 5
    Economics 386, Labor Economics 5
    Business Administration 351, Principles of Organization and Management 5
    Business Administration 370, Business Law 5
15. Major Concentration 30
16. Business Administration 395, Personal Adjustment to Business 1
17. Electives 37
    Students who take advanced Military or Air Science will receive 18 hours of elective credit.
    Total Requirements 186

(Exclusive of Physical Education 1-2 and basic Military or Air Science).

The courses listed above fall into two groups: junior division courses (courses with a number less than 200) and senior division courses (courses numbered 200 or above). A junior division student is one who has less than 84 academic hours and a senior division student is one who has 84 or more academic hours. A student should complete the junior division requirements before registering for senior division courses and senior division students must give priority at registration to all uncompleted junior division requirements.

Although the minimum number of hours required for graduation is 186, it does not necessarily mean that the obtaining of 186 hours of credit will insure one a degree. There are certain other specific requirements which must be satisfied in order to qualify for the degree.

1. Senior Division Requirements:
   (a) 60 hours of senior division courses after reaching senior division standing, and
   (b) 45 hours, after reaching senior division standing, of senior division courses in residence in the College of Business Administration, and
   (c) 30 hours of senior division courses must be taken in residence during the 3 quarters immediately preceding graduation, and
   (d) the grade in each course in the core curriculum must be C or better.
2. Major Concentration Requirements:
   (a) No course taken before a student has obtained senior division standing can count on his major regardless of the course number, and

(b) All courses in the major concentration must be approved by the student's major professor or the dean, and

(c) The grade in each course used for the major must be C or above.

3. Residence Requirements:

(a) At least half of the courses constituting the major must be taken in residence, and

(b) A minimum of 45 hours of senior division courses must be taken in residence in the College of Business Administration.

4. Scholastic Requirements:

(a) An average of C with not more than 45 hours of D grades must be obtained.

MAJOR CONCENTRATION GROUPS

ACCOUNTING

MR. HECKMAN, Chairman

Accounting knowledge is fundamental in business whether it be in retailing or wholesaling, manufacturing or selling. Internal control can be secured only through intelligent use of business statements and reports. The course in accounting is designed to give an understanding of the principles and practices in the control of business through records and reports, and likewise a knowledge of how to prepare these essential records and reports. Governmental regulations and taxation further emphasize the necessity of accounting knowledge.

Recommended courses for majors in private accounting:

	Hours
Business Administration 311, Introductory Cost Accounting	5
Business Administration 413, Advanced Cost Accounting	5
Business Administration 449, Analysis of Financial Statements	5
Business Administration 453, Accounting Theory, first course	5
Business Administration 454, Accounting Theory, second course	5
Business Administration 515, Income Tax Accounting	5
Business Administration 519, Tax Accounting	5
Business Administration 579, Functions of the Controller	5

The program in public accounting is designed to furnish adequate preparation for the public accountants examination to those students who plan to enter the professional field of public accounting. Public accounting includes the fields of auditing, system installations, and tax procedures. In order to complete preparation for the State CPA examination a fifth year of study devoted primarily to accounting subjects is recommended. The Georgia CPA law requires three years of practical experience prior to the issuance of a certificate, one year of which is cancelled for those graduates who have majored in accounting.

Recommended courses for public accounting:

	Hours
Business Administration 311, Introductory Cost Accounting	5
Business Administration 315, Punch-Card Equipment	5
Business Administration 371, Business Law, second course	5
Business Administration 453, Accounting Theory, first course	5
Business Administration 454, Accounting Theory, second course	5
Business Administration 515, Income Tax Accounting	5
Business Administration 517, C.P.A. Review	5
Business Administration 518, Municipal Accounting	5
Business Administration 519, Tax Accounting	5
Business Administration 520, Punch-Card Accounting	5
Business Administration 556, Accounting Problems	5

	Hours
Business Administration 557, Consolidated Statements	5
Business Administration 572, Auditing Principles	5
Business Administration 573, Auditing Problems	5
Business Administration 581, Accounting Systems	5

AERONAUTICAL ADMINISTRATION

MR. NACHTRAB, Chairman

In view of the expanding development of air transportation, there is a growing demand for college graduates trained in management or administration of aircraft manufacturing or transportation industries and as airport and airline managers. In preparation for a career in this field, this major concentration group offers courses covering aerial navigation, meteorology, aircraft and principles of flight and Civil Air Regulations as well as the business administration aspects of this industry. The student will also receive the same general training in business and economics as majors in other special groups.

	Hours
Business Administration 320, Commercial Aviation	5
Business Administration 321, Aerial Navigation	5
Business Administration 322, Civil Air Regulations and Meteorology	5
Business Administration 323, Aircraft Powerplants	5
Business Administration 325, Aircraft and Theory of Flight	5
Business Administration 327, Airport Management and Operation	5
Business Administration 328, Airline Administration and Practice	5
Economics 475, Economics of Transportation	5
Economics 585, Personnel Administration	5

ECONOMICS

MR. SMITH, Chairman

An understanding of the economic realities of today's world has come to be an essential for the effective management of both private and public enterprise. Leaders in both of these important areas must have an appreciation of the impact of their actions on the nation as a whole, and also an appreciation of the significance of general economic developments for the decisions that they make. Only through intelligent planning and coordination based upon an understanding of fundamental economic relationships can our nation adequately fulfill its responsibilities both at home and abroad. The program of training in economics is an outgrowth of this basic need.

	Hours
Economics 400, Early Economic Systems	5
Economics 406, Advanced Economic Theory	5
Economics 434, Public Finance	5
Economics 436, Business Cycles	5
Economics 437, Comparative Economic Systems	5
Economics 444, Government and Business	5
Economics 450, Monetary Policy	5
Economics 455, Contemporary Economic Problems	5
Economics 475, Economics of Transportation	5
Economics 480, International Trade	5
Economics 489, The Labor Movement	5
Economics 494, European Economic History	5
Economics 577, Public Utilities	5
Economics 591, Applied Statistics	5

FINANCE

Mr. Dince, Acting Chairman

The major in finance has been designed to give the student an intimate knowledge of the relative investment merits of the various classes of corporate securities and the nature of our complex banking and financial structure. Modern industry is characterized by the predominance of the corporate form of business enterprise and by the emphasis upon financial management. Careful study is essential for a proper understanding of the financial complexities of the present day corporations.

Training is provided to equip the student to enter occupations requiring a knowledge of the securities market, corporation finance, investment banking, trusts, estate building, building and loan associations, and investment companies. Financial problems of the individual are also stressed to enable him to do a better job of managing his money, to think clearly, and to move forward to financial independence.

	Hours
Economics 334, Personal Finance	5
Economics 430, Corporation Finance	5
Economics 431, Investments	5
Economics 432, Fundamentals of Investment Banking	5
Economics 434, Public Finance	5
Economics 435, State and Local Public Finance	5
Economics 436, Business Cycles	5
Economics 450, Monetary Policy	5
Economics 488, Securities Market	5
Business Administration 449, Analysis of Financial Statements	5

GENERAL BUSINESS

Mr. Segrest, Chairman

The major in general business is designed for those students who wish to obtain a general rather than a specialized training in business administration. It is especially appropriate for those who will eventually become owners or managers of small business concerns. In this field emphasis is placed upon a comprehensive view of business as a whole rather than upon some one of the specialized functions in business administration. This gives the student a broader and more extensive approach to business problems than that which is afforded by intensive study in a specialized field.

The method of accomplishing this broader training is that of selecting certain basic courses from each of the specialized programs. This gives the student an appreciation of the contribution of the specialized groups to the going business enterprise and shows how these specialized functions must be brought together and organized into a working system in order to operate effectively. The courses listed as a part of this major concentration provide useful training for the prospective business man regardless of the type of business entered.

	Hours
Economics 334, Personal Finance	5
Economics 430, Corporation Finance	5
Economics 436, Business Cycles	5
Economics 444, Government and Business	5
Economics 488, Securities Market	5
Economics 490, Labor Legislation	5
Economics 585, Personnel Administration	5
Business Administration 371, Business Law, second course	5
Business Administration 387, Life Insurance	5
Business Administration 390, Real Estate Principles	5
Business Administration 515, Income Tax Accounting	5

INDUSTRIAL RELATIONS AND PERSONNEL ADMINISTRATION

MR. SEGREST, Chairman

One of the biggest tasks confronting our economy today is the harmonious coordination of the efforts of many individual workers within industrial society. Achievement of more satisfactory working conditions, steadier employment, better adjustment of labor disputes, and resulting increases in productivity and real income for all, are vital both to the individual business unit and to society. Intelligent management of labor means both reduced costs for business and more efficient utilization of the human resources of our nation. It involves an understanding of the unions with which management deals, the nature and issues of collective bargaining, and the relationship between unorganized workers and management.

This program is not primarily directed toward the professional training of students interested in the fields of labor and personnel. The growth of the labor movement, the increase of public interest and control of industrial relations, and the strength of organized labor groups in our society make many of the problems of labor relations urgent matters of public policy. Specialization in this field is viewed as part of the equipment of the citizen as well as of the executive and only secondary as training for specialized employment.

	Hours
Economics 442, Public Personnel Administration	5
Economics 444, Government and Business	5
Economics 489, The Labor Movement	5
Economics 490, Labor Legislation	5
Economics 585, Personnel Administration	5
Economics 591, Applied Statistics	5
Business Administration 582, Employment Psychology	5
Business Administration 583, Psychology of Work and Efficiency	5
Business Administration 584, Psychological Aspects of Wage Determination	5

INSURANCE AND REAL ESTATE

MR. CHARLES, Chairman

The program of study in the insurance and real estate concentration group is designed to give the student a broad understanding of the place and functions of risk-bearing institutions in a private economy, the opportunities for professional advancement in the insurance and real estate fields, either in combination or separately, and to give the future business executive some basic principles to guide him in setting up an adequate insurance program. Insurance has recently assumed the status of a profession and the concentration is designed to enable one to achieve professional competency as well as to become a more intelligent purchaser of insurance and real estate.

	Hours
Business Administration 371, Business Law, second course	5
Business Administration 385, Casualty Insurance	5
Business Administration 387, Life Insurance	5
Business Administration 388, Property Insurance	5
Business Administration 389, Insurance Agency Management	5
Business Administration 390, Real Estate Principles	5
Business Administration 391, Real Estate Agency	5
Business Administration 392, Real Estate Property Management	5
Business Administration 393, Real Estate Finance	5
Business Administration 502, Casualty Insurance Problems	5
Business Administration 504, Real Estate Appraisals	5
Business Administration 515, Income Tax Accounting	5
Business Administration 519, Tax Accounting	5
Economics 431, Investments	5

Economics 591, Applied Statistics 5
Mathematics 303, Mathematics of Life Insurance 3
Insurance Law, The School of Law 5
(Consent of Instructor required)

MARKETING

Mr. Troelston, Chairman

Concentrated study of marketing is two-fold in purpose; first, it trains students for positions in sales organizations, in market research, and in other fields related to distribution; and, second, it provides appraisal of the market system's effectiveness in meeting the broad demands of social welfare.

Emphasis has been placed in recent years upon the importance of market costs as compared with those of production. Large scale production, regional specialization in production, and the development of metropolitan areas far removed from sources of supply have necessitated a complex marketing machinery. An understanding of marketing problems for the successful operation of individual businesses is necessary so that methods may be improved and selling costs controlled.

Hours

Economics 361, Marketing Problems 5
Economics 465, Marketing Research and Analysis 5
Economics 466, Economics of Consumption 5
Economics 475, Economics of Transportation 5
Economics 480, International Trade 5
Economics 591, Applied Statistics 5
Business Administration 560, Principles and Problems of Retailing 5
Business Administration 563, Advertising and Display 5
Business Administration 564, Sales Management 5
Business Administration 570, Wholesaling 5
Business Administration 578, Purchasing 5

PUBLIC ADMINISTRATION

Mr. Gates, Chairman

With expanding governmental social services and regulatory bodies, the need for personnel trained in public administration becomes greater. To provide this basic training, the Political Science Department and the College of Business Administration jointly offer a major concentration in public administration for those who wish to prepare to enter government service (local, state, or federal). It is recommended that those students who choose this major select, as their free electives, additional advanced courses in political science.

Hours

Economics 434, Public Finance 5
Economics 435, State and Local Public Finance 5
Economics 437, Comparative Economic Systems 5
Economics 441, Principles of Public Administration 5
Economics 442, Public Personnel Administration 5
Economics 443, Public Financial Administration 5
Economics 444, Government and Business 5
Economcis 490, Labor Legislation 5
Economics 492, American Administrative Law 5
Economics 577, Public Utilities 5
Economics 591, Applied Statistics 5

PUBLIC UTILITIES AND TRANSPORTATION

Mr. Lemly, Chairman

The demand for power, communication, and transportation has expanded very rapidly in the United States in recent years, and these industries "affected with a public interest"—the public utilities—have become indispensable to the operation of a modern economy. As a result few industries offer the combination of security coupled with need to expand which the public utilities of this country provide.

The program of training in public utilities and transportation has been developed to serve two groups of students. The first of these is composed of students who wish to secure employment in the fields of power, communication, or transportation. The second is made up of those who are interested in securing government employment in an agency which is concerned with the promotion or regulation of these vital business units.

	Hours
Economics 430, Corporation Finance	5
Economics 444, Government and Business	5
Economics 475, Economics of Transportation	5
Economics 492, American Administrative Law	5
Economics 511, Rate Making	5
Economics 577, Pubic Utilities	5
Economics 591, Applied Statistics	5
Business Administration 320, Commercial Aviation	5
Business Administration 508, Industrial Traffic Management	5
Business Administration 509, Motor Transportation	5
Business Administration 510, Rail Transportation	5

RETAILING

Mr. Harris, Chairman

This major concentration is designed to train students in a field which is constantly demanding college graduates for executive positions. It provides a broad background of knowledge, attitudes and skills that are basic to a professional career in the retailing field. The curriculum includes a study of the major aspects of retail store organization and management, techniques of sales promotion, research methods, and merchandising techniques. In addition the more specialized areas of advertising and display, textiles, and fashions are available for the interested student.

To make the retailing major more meaningful, professional courses should be paralleled by work experience whenever feasible. With this view in mind superior students within 55 hours of graduation will be encouraged to take Business Administration 340, Business Practice, so that they may enter a business establishment for the purpose of obtaining practical supervised retail experience.

	Hours
Business Administration 369, Fashion Promotion in Retailing	5
Business Administration 560, Principles and Problems in Retailing	5
Business Administration 561, Store Organization and Operation	5
Business Administration 562, Retail Merchandising	5
Business Administration 563, Advertising and Display	5
Business Administration 567, Retail Buying and Merchandise Control	5
Business Administration 568, Retail Merchandise Information	5
Economics 361, Marketing Problems	5
Economics 465, Marketing Research and Analysis	5
Economics 466, Economics of Consumption	5
Economics 585, Personnel Administration	5
Journalism 575, Advertising Copy Writing	5
Journalism 578, Retail Advertising Copy and Sales Promotion	5

SECRETARIAL STUDIES

MR. ORTH, Chairman

The purpose of secretarial studies is to equip students with secretarial skills and a broad background to qualify them for positions in government, business, and the professions.

Students majoring in this field should take Business Administration 300 a-b-c, Shorthand, and Business Administration 303, 304, and 305, Typewriting, in residence during their junior year; Business Administration 306, Transcription, Business Administration 307, Office Management, and Business Administration 310, Secretarial Office Practice, in residence during their senior year. Majors who receive transfer credit in Shorthand, Typewriting, or Transcription must pass comprehensive tests during the last quarter before graduation as a requirement for the B.B.A. degree.

Secretarial studies majors who desire to teach commercial subjects should select their electives from among those subjects in the field of Education that will qualify them for teaching certificates.

	Hours
Business Administration 300 a-b-c, Shorthand	9
Business Administration 303-304-305, Typewriting	6
Business Administration 306, Transcription	3
Business Administration 307, Office Management	3
Business Administration 310, Secretarial Office Practice	5
Business Administration 315, Punch-card Equipment	5

ECONOMIC STATISTICS

MR. SEBBA, Chairman

The concentration group in statistics is jointly offered by the Mathematics Department and the College of Business Administration. It gives the student an opportunity to work towards a professional career in statistics by taking the courses listed below. Students preferring to prepare for statistical work in economics, finance, banking, insurance, marketing and advertising may, with permission of the chairman, substitute up to three courses in their special field of interest.

	Hours
Economics 421, Punched-Card Statistics	5
Economics 436, Business Cycles	5
Economics 591, Applied Statistics	5
Business Administration 315, Punch-Card Equipment	5
Mathematics 451, Mathematical Statistics	5
Mathematics 452, Mathematical Statistics	5

COMBINATION COURSE IN BUSINESS ADMINISTRATION AND LAW

MR. ROMAN, Chairman

Business training in general economics, accounting, corporate organization, finance, taxation, labor and other specialized fields has become important to the lawyer. Many law firms find their practice largely confined to acting as consultants to business executives.

It would be an ideal arrangement if prospective lawyers could pass first through a school of business before taking up the study of law. Since such a course normally requires seven years, involving a greater expenditure of time and money than students can usually afford, the College of Business Administration and the School of Law have a combined curriculum making possible completion of both courses in eighteen quarters.

Students taking this combination will register for the special curriculum in Business Administration and Law as described below. This enables the student to get a total of 38 hours in subjects of an economic and business

character in his first two years. In the junior year the student will complete the core curriculum (except Business Administration 370, Business Law), and will also take a major in one of the concentration groups, making a total of 83 hours in business and economic subjects. It is thus possible for him to get specialized training in a selected business administration field before entering the School of Law. During the senior year the student will substitute the first year of work in the School of Law for his business administration requirements.

The degree of Bachelor of Business Administration may then be conferred in the combined program at the end of the fourth year's work on those students who successfully complete all of the work of the first year in the School of Law (with total University credit of 186 hours, exclusive of basic military and physical education) and who are certified by the Dean of that College as being eligible for re-admission to the second year of the School of Law.

Three quarters' residence work, including 45 hours in courses numbered 200 or above, devoted exclusively to courses in the College of Business Administration will be required after admission to senior division standing.

CURRICULUM IN BUSINESS ADMINISTRATION AND LAW

(Note: This program permits no electives)

Freshman and Sophomore Years

	Hours
Business Administration 1 a-b-c	0
English 2x-2y	10
Mathematics 101x or 101y	5
History 100 or 110y	5
Science (Double Laboratory)	10
Speech 50	5
Economics 5x-5y	10
Business Administration 8	3
English 22x-22y	10
Political Science 1	5
Business Administration 6x-6y	10
Philosophy 104	5
Economics 33	5
Economics 312	5
Economics 386	5
Physical Education 1-2	0
Military Science 1-2 or Air Science 5-6 (for men)	0
Total freshman and sophomore academic hours	93

Junior Year

	Hours
Economics 326	5
Economics 360	5
Business Administration 351	5
Philosophy 358	5
Major Concentration	30
Total junior academic hours	50

Senior Year

Satisfactory completion of the first year of work in the School of Law and a total of 186 academic hours (exclusive of basic Military or Air Science and Physical Education 1-2).

DAIRY PLANT MANAGEMENT PROGRAM

MR. HENDERSON, Chairman

In cooperation with the Dairy Department, College of Agriculture, the College of Business Administration offers a major in Dairy Plant Management for those students who wish to combine a technical knowledge of the dairy manufacturing industry with business administration training. This is a four year special program leading to the degree of Bachelor of Business Administration. Students selecting this concentration should begin the special curriculum as early as possible during the freshman year.

CURRICULUM IN DAIRY PLANT MANAGEMENT

FRESHMAN AND SOPHOMORE YEARS

	Hours
Business Administration 1 a-b-c	0
English 2x-2y	10
Mathematics 101x or 101y	5
Physical Science 1	5
History 100 or 110y	5
Political Science 1	5
Chemistry 21-22	10
Economics 5x-5y	10
Economics 33	5
Speech 50	5
English 22x-22y	10
Business Administration 6x-6y	10
Business Administration 8	3
Chemistry 346	5
Bacteriology 350	5
Physical Education 1-2	0
Military Science 1-2 or Air Science 5-6	0
Total freshman and sophomore academic hours	93

JUNIOR YEAR

	Hours
Economics 312	5
Economics 326	5
Economics 360	5
Economics 386	5
Business Administration 351	5
Business Administration 370	5
Dairy 350	5
Dairy 389	5
Dairy 394	5
Total junior year	45

SENIOR YEAR

	Hours
Business Administration 395 (Fall Quarter only)	1
Business Administration 560	5
Business Administration 564	5
Business Administration 578	5
Dairy 395	5
Dairy 396	5
Dairy 399	5
Electives	17
Total senior year	48

AIR LINE STEWARDESS CERTIFICATE PROGRAM

Mr. Nachtrab, Chairman

Women enrolled in the College of Business Administration may take elective courses which, upon receipt of the degree of Bachelor of Business Administration, will entitle them to an "Air Line Stewardess Certificate." Most air lines prefer to employ college graduates, and all of them have specific requirements which vary slightly. In general, a stewardess may not be more than 26 years old upon graduation. Her height may vary from 5 ft. to 5 ft. 7 in., and her weight from 100 to 125 pounds (in proportion to height). Students will take the regular four year degree program and the air line stewardess certificate will be awarded only upon completion of the degree requirements and the following electives.

Electives Required for the Air Line Stewardess Certificate

	Hours
Business Administration 324, History of Aviation	3
Business Administration 329, Aerology	3
Business Administration 330, Basic Navigation	3
Business Administration 331, Airline Operations	3
Business Administration 332, Passenger Procedures	3
Home Economics 325, How to Dress	3
Home Economics 344, Home Nursing	3
Home Economics 5, Meal Preparation and Service	5
Speech 3, Oral Communication	3
Total	29

(Note: If the student chooses the Aeronautical Administration major, then Business Administration 324, 329, and 330 will not be required for the certificate.)

MAJOR IN ECONOMICS IN THE BACHELOR OF ARTS DEGREE

Applicants for the Bachelor of Arts degree upon entering the Junior Class are required to select a major division, from which at least eight courses must be taken. One of the major divisions that may thus be elected is the division of Social Sciences, and Economics is one of the departments in this division. For A.B. students who desire to major in Economics the concentration group in Economics is provided. From this group, with the approval of the major professor and the Dean of the College of Arts and Sciences, the major program will be arranged.

COURSES OF INSTRUCTION

(Commerce-Journalism Building, North Campus)

Unpredictable circumstances may necessitate the temporary withdrawal of some of the announced courses. The University reserves the right to withdraw any course for which the registration is not sufficiently large, and to offer courses not here listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated all courses meet five hours a week and carry five hours credit.

BUSINESS ADMINISTRATION

1 a-b-c. Orientation to Business. No academic credit. (One period a week for three quarters.) ***Mr. Roman.***

To acquaint the beginning student with the instructional and other programs of the University; to provide a full program of testing and counseling for freshmen. Required of all freshmen in the College of Business Administration. Not required of transfer students with sophomore standing.

6x. PRINCIPLES OF ACCOUNTING. First course. *The Staff.*

An introduction to the fundamental principles and practices of accounting; the construction and interpretation of balance sheet and profit and loss statements; the theory of debits and credits as applied to business transactions.

6y. PRINCIPLES OF ACCOUNTING. Second course. Prerequisite: Business Administration 6x. *The Staff.*

An application of accounting principles to certain specialized problems, such as proprietorship under the various forms of business organization; manufacturing accounts and manufacturing cost controls; accounting for fire losses, bonds, and sinking funds.

7. PERSONAL TYPING. No academic credit. (Five periods a week). *The Staff.*

An introductory course in typewriting designed to teach in a minimum of time typewriting for personal use.

8. BUSINESS CORRESPONDENCE. 3 hours. *The Staff.*

Qualities and principles of effective business letter writing; practice in writing various types of letters and reports.

300 a-b-c. SHORTHAND. 9 hours (Credit given only upon completion of 300c). Five periods a week for three quarters. *Mr. Orth* and *the Staff.*

Study of the theory of Gregg shorthand, development of skill in reading and writing from printed shorthand, dictation of a general commercial nature, and transcribing into correct, acceptable form.

Students who have had Gregg shorthand in high school may register for Business Administration 300c by passing a test on the material covered in Business Administration 300a-b. In such cases credit is given only for work done at the University.

303-304-305. TYPEWRITING. 6 hours. (Credit given only upon completion of 305). Five periods a week for three quarters. *Mr. Orth* and *the Staff.*

Introductory and advanced typewriting; business letters and forms; tabulation and manuscript writing; stencil work, and other typewriting problems of the business office.

Students who have had typewriting in high school may register for Business Administration 305 by passing a test on the material covered in Business Administration 303 and 304. In such cases credit is given only for work done at the University.

306. TRANSCRIPTION. 3 hours. Prerequisites: Business Administration 300c and 305. *Mr. Orth* and *Staff.*

Advanced secretarial course to develop greater competency in recording dictation and transcribing.

307. OFFICE MANAGEMENT. 3 hours. *Mr. Orth* and *Staff.*

Principles of scientific management and the responsibilities of office management; office equipment; office records and reports; filing; supervision; selection and training; office methods and procedures.

310. SECRETARIAL OFFICE PRACTICE. Prerequisites: Business Administration 300 a-b-c, 303, 304, and 305. (300c and 305 may be taken concurrently). *Mr. Orth.*

Advanced secretarial course; secretarial traits and duties; filing; operation of dictating, duplicating, calculating, and other office appliances.

311. INTRODUCTORY COST ACCOUNTING. Prerequisite: Business Administration 6y. *The Staff.*

Methods of ascertaining and distributing costs in manufacturing concerns emphasizing the securing of units costs under the order and process methods.

315. PUNCH-CARD EQUIPMENT. *The Staff.*

Introductory course in the operation and use of punch-card equipment. Especially recommended for majors in accounting, secretarial studies, and statistics.

320. COMMERCIAL AVIATION. *Mr. Nachtrab.*

History and development of commercial aviation, aircraft types, airways and their aids, government regulations.

321. AERIAL NAVIGATION. *Mr. Nachtrab.*

Aerial maps and charts, course plotting, navigation methods, including pilotage, dead reckoning and radio, navigation instruments.

322. CIVIL AIR REGULATIONS AND METEOROLOGY. *Mr. Nachtrab.*

Civil air regulations, covering certification of pilots and airplanes, pilot regulations, flight rules, and air traffic rules; meteorology, covering theory of weather, weather maps, teletype sequence reports, forecasting, and flight planning.

323. AIRCRAFT POWER PLANTS. *Mr. Nachtrab.*

Types, construction, theory and operation of aircraft engines including study of electrical systems and attendant accessories such as magnetos, generators and batteries.

324. History of Aviation. 3 hours. (Restricted to students enrolled in the Air Line Stewardess Program.) *Mr. Nachtrab.*
History and description of the aviation industry.

325. Aircraft and Theory of Flight. *Mr. Nachtrab.*
Principles of aerodynamics and physical laws related to aircraft in flight; airfoils and forces acting upon them; wing types and characteristics; propellor theory and reaction propulsion; aircraft types and construction.

327. Airport Management and Operation. *Mr. Nachtrab.*
Problems of airport management, development; survey of civil air regulations governing and regulating airport operations; traffic control; city and county regulations, public relations and advertising.

328. Airline Administration and Practice. *Mr. Nachtrab.*
A study of the general principles governing airline administration.

329. Aerology. 3 hours. (Restricted to students enrolled in the Air Line Stewardess Program). *Mr. Nachtrab.*
Basic meteorology; includes terminologies as used by air line pilots and weather men; basic cloud formations, teletype weather sequence reports, weather maps.

330. Basic Navigation. 3 hours. (Restricted to students enrolled in the Air Line Stewardess Program). *Mr. Nachtrab.*
Understanding and use of aerial navigation charts, navigation instruments, preparing simple flight plans.

331. Air Line Operation. 3 hours. (Restricted to students enrolled in the Air Line Stewardess Program). *Mr. Nachtrab.*
A study of air line organization; functions and relations of different departments; tariffs and schedules; air routes.

332. Passenger Procedure. 3 hours. (Restricted to students enrolled in the Air Line Stewardess Program). *Mr. Nachtrab.*
Passenger handling- air line forms and records; routine duties and procedures; emergency procedures.

335. Business History. 3 hours. Prerequisite: Senior Division Standing. *Mr. Smith.*
Analysis of the development of a few selected American business firms and industries with particular attention to the factors which helped or hindered their development.

340. Business Practice. Maximum credit 15 elective hours. Prerequisite: Three years of college work leading to a B.B.A. degree.
A few superior students are permitted in their senior year to enter business establishments for the purpose of obtaining practical experience. The period of absence is limited to one quarter.

351. Principles of Organization and Management. *Mr. Froemke* and *Mr. Roman.*
An introductory study of organization theory, the principles of communication, the principles of group dynamics, leadership, the structure and internal functions of the typical business concerns, systems analysis and production management.

352. Industrial Operations. Prerequisite: Business Administration 351. *Mr. Froemke.*
The general organization and management of an industrial plant. Process analysis, plant location, plant layout, purchasing, materials handling, quality control, maintenance and production control systems.

353. Human Relations in Administration. 3 hours. *Mr. Froemke* and *Mr. Roman.*
Problems of communication and understanding which occur between individuals, between individuals and groups, and between groups; analysis of cases taken from business organization.

354. Business Reports. 3 hours. Prerequisite: Senior Division Standing. *The Staff.*
The role of business reports and their types; getting the investigation under way and collecting data; organizing and interpreting data; writing the report; preparation and presentation of statistical materials.

369. Fashion Promotion in Retailing. Prerequisite: Economics 360. *Mr. Harris.*
Principles of planning, buying, promoting, and selling fashions; fashion cycle; fashion trends; design influence; fashion coordination; selling points; quality distinctions.

370. Business Law. First course. (Not open to students taking the combined LL.B.-B.B.A. degree). *Mr. Charles* and *the Staff.*

Contracts, sales contracts, uniform sales law, negotiable instruments, bailments, common and public carriers, and agency.

371. Business Law. Second course. Prerequisite: Business Administration 370. (Not open to students taking the combined LL.B.-B.B.A. degrees). *Mr. Charles* and *the Staff.*

Employer and employee; partnerships, formation, operation and dissolution; corporations; insurance, life, property, and automobile; real estate mortgages, landlord and tenant, wills, and bankruptcy.

385. Casualty Insurance. *Mr. Charles.*

Insurance covering losses due to accidental damage or injury to property or persons; workmen's compensation; health and accident; automobile public liability; burglary; fidelity and dishonesty; personal liability; and other types of losses.

387. Life Insurance. *Mr. Charles.*

The uses of life insurance, mortality tables, types of policies, reserves and policy values, organization of life insurance companies; group and industrial insurance, legal interpretation of policies, state supervision of life insurance.

388. Property Insurance. *Mr. Charles.*

The functions of property insurance; standard policies; settlement of losses; marine and inland marine; automobile title; credit; other forms of property insurance.

389. Insurance Agency Management. Prerequisite: Business Administration 387 or 388. *Mr. Charles.*

Status of the insurance agency, methods of agency management, aids from the head office, hiring and training sub-agents, sales policies, promotion, sources of contracts, duties to the principal in claims settlements, commissions, and accounting records.

390. Real Estate Principles. *Mr. Rasmussen.*

A consideration of the general principles of property utilization, the law dealing with ownership, transfer of title, and liens; the appraisal process, determinants of values, the real estate cycle, management and salesmanship, and regulatory legislation.

391. Real Estate Agency. Prerequisite: Business Administration 390. *Mr. Rasmussen.*

Private and government financing of real estate; the management and sales problems of a real estate broker.

392. Real Estate Property Management. Prerequisite: Business Administration 390. *Mr. Rasmussen.*

The principles and policies relating to the management of houses, stores and office buildings; collections; maintenance; services; records; tenant relationships.

393. Real Estate Finance. Prerequisite: Business 390 or consent of the instructor. *Mr. Rasmussen.*

Institutions, techniques, and instruments of real estate finance; sources of funds; loan contracts; principles of mortgage risk analysis; the role of government agencies in the mortgage lending field.

395. Personal Adjustment to Business. 1 hour. *Mr. Gates.* (Required of all candidates for the B.B.A. degree). Fall quarter only.

Methods of selecting and obtaining a suitable business position; proper techniques of making application, preparing for interview, and initial conduct on the job. Outside business men will give occasional talks on topics of vocational information. (Fall Quarter only).

413. Advanced Cost Accounting. Prerequisite: Business Administration 311. *The Staff.*

A detailed study of cost accounting theories and their application to standard and estimated costs sets.

449. Analysis of Financial Statements. Prerequisite: Business Administration 6y. *The Staff.*

Techniques of analysis of balance sheets and statements of profits and loss, and the interpretation of findings; statements of various industries and utilities with interpretations based upon a knowledge of the particular industry.

453. Accounting Theory. First Course. Prerequisite: Business Administration 6y. *The Staff.*

Development and importance of accounting theories; application to problems incident to partnership and corporation formation, operation and liquidation.

454. Accounting Theory. Second Course. Prerequisite: Business Administration 453. *The Staff.*

A continuation of Business Administration 453. Application of the theories of valuation to normal financial statements and interpretations of these statements.

502. Casualty Insurance Problems. Prerequisite: Business Administration 385. *Mr. Charles.*

Advanced study of all types of casualty insurance; automobile, professional liability, products liability, and others.

504. Real Estate Appraisal. Prerequisite: Business Administration 390 or consent of the instructor. *Mr. Rasmussen.*

508. Industrial Traffic Management. *Mr. Lemly.*

Factors which influence the movement of freight traffic; rights and privileges of the industrial shipper; limitations and duties in purchasing transportation services.

509. Motor Transportation. *Mr. Lemly.*

The significance and development of highway motor transportation; the problems of present day motor transportation; opportunities for growth.

510. Rail Transportation. *Mr. Lemly.*

Growth of the rail network and its present status in the American economy; current problems and objectives of the railroads.

515. Income Tax Accounting. Prerequisite: Business Administration 6y. *The Staff.*

Interpretation of federal and state income tax laws with practice material requiring application of these laws to the returns of individuals, partnerships, and fiduciaries.

517. C.P.A. Review. Prerequisite: Business Administration 557. *Mr. Heckman.*

General review of all accounting courses preparatory to the state C.P.A. examinations. Open only to students planning to take the C.P.A. examination.

518. Municipal Accounting. Prerequisite: Business Administration 6y. *The Staff.*

Accounting problems and procedures pertaining to state and local governments and their institutions; governmental classification of receipts and expenditures; preparation of reports; budgeting and operation of fund accounts.

519. Tax Accounting. Prerequisite: Business Administration 515. *Mr. Heckman.*

Continuation of Business Administration 515 with emphasis upon corporation income tax laws, social security taxes, gift taxes, and estate taxes.

520. Punched-Card Accounting. Prerequisite: Business Administration 6y and 315. *The Staff.*

Application of punched-card techniques to specialized accounting problems of commerce and industry, such as billing, payrolls, cost analysis, inventory control, sales analysis, etc.

556. Accounting Problems. Prerequisite: Business Administration 311. *The Staff.*

Application of accounting theory to specialized problems of industry, such as consignments, insurance, receiverships, and estates; application of funds.

557. Consolidated Statements. Prerequisite: Business Administration 454. *The Staff.*

Development of special accounting problems incident to corporate organizations in the preparation of consolidated statements, consolidations, and mergers.

560. Principles and Problems in Retailing. Prerequisite: Economics 360. *Mr. Harris.*

A survey of the retailing field; opportunities; failures; remedies; introduction to the merchandising function; advertising; management; markup; buyer-seller relationship.

561. Store Organization and Operation. Prerequisite: Business Administartion 560. *Mr. Harris.*

Organization of store management; trends; locations; layout; receiving and delivery; complaints; credits; maintenance personnel and miscellaneous operating problems.

562. Retail Merchandising. Prerequisite: Business Administration 560. *Mr. Harris.*

Factors governing profitable management inventory; merchandising techniques;

analysis of profit elements; computations; sales and mark-down planning; stock control.

563. Advertising and Display. Prerequisite: Economics 360. *Mr. Harris.*
Advertising procedures; organization of publicity departments; research; media; internal sales promotion; campaigns; display techniques.

564. Sales Management. Prerequisite: Economics 360. *Mr. Harris* and *Mr. Troelston.*
Problems and cases of manufacturers and dealers in marketing consumer and industrial goods; sales promotion; sales analysis; channels of distribution; selection and control of salesmen.

567. Retail Buying and Merchandise Control. Prerequisite: Business Administration 560. *Mr. Harris.*
Retail buying as a career; model stocks and buying plans; resources and markets; stock control; inventory; price lines; budgeting and planning.

568. (Home Economics) Retail Merchandise Information. Prerequisite: Economics 360 or Home Economics 321 and 363. *Mrs. Blair* and *Staff.*
Natural fibers and synthetics; textile identification; fabric finishes; appropriate fabrics; plastics; leather; wood; terminology and trade names.

570. Wholesaling. Prerequisites: Economics 360. *Mr. Troelston* and *the Staff.*
Types and classes of wholesale institutions; organization and management with emphasis on selected product groups and trade areas.

572. Auditing Principles. Prerequisite: Business Administration 454.
Principles governing audits and audit procedures; qualification and responsibilities of the public accountant.

573. Auditing Problems. Prerequisite: Business Administration 572. *The Staff.*
Application of auditing theories and principles to audit problems with emphasis upon preparation of audit working papers and reports.

578. Purchasing. Prerequisites: Economics 360. *Mr. Troelston* and *the Staff.*
Principles and practices used by manufacturing and other types of business concerns in the purchasing of equipment, raw materials, parts, and supplies.

579. Functions of the Controller. Prerequisite: Business Administration 311. *The Staff.*
Principles and functions of the controller and his office; forecasting; budget preparation; variances and allocation of responsibility; application of principles of management psychology to remedying weaknesses.

581. Accounting Systems. Prerequisite: Business Administration 454. *The Staff.*
Accounting systems used in various businesses; principles of internal check; organization and installation of an accounting system.

582. (Psychology) Employment Psychology. Prerequisites: Psychology 1 and Economics 312. *Mr. Gray.*
Scientific methods of selecting men for industrial and business employment; interviewing; testing; appraisal of human aptitudes.

583. (Psychology) Psychology of Work and Efficiency. Prerequisites: Psychology 1 and Economics 312. *Mr. Gray.*
Factors which affect work and efficiency—such as lighting, ventilation, methods, rest, age, and motivation: experiments to demonstrate and evaluate these factors.

584. (Psychology) Psychological Aspects of Wage Determination. Prerequisites: Psychology 1 and Economics 312. *Mr. Gray.*
Methods of job analysis, job evaluation, and merit rating; actual practice in using these procedures.

ECONOMICS

5x. Principles of Economics. *The Staff.*
Description and analysis of the economic organization of modern society with a brief introduction to the theory of value and distribution.
This course is required of all students in the College of Business Administration and A.B. majors in Economics. It is elective as a social science for all other students and may be taken without 5y.

5y. Problems of Economics. Prerequisite: Economics 5x. *The Staff.*
Economic problems based upon the principles studied in Economics 5x.
This course is required of all students in the College of Business Administration and A.B. majors in Economics.
These two courses (5x and 5y) are prerequisite to all advanced courses in economics and business administration, except by special permission of the instructor.

33. Economic Development of the United States. *Mr. Lorenz* and *Mr. Smith.*
American economic development from the colonial period to the present; economic factors involved in industrial growth and the resulting economic problems.

312. Elementary Economic Statistics. *Mr. Sebba* and *the Staff.*
Introduction to the presentation and analysis of quantitative economic data; statistical sources; table reading; chart making; introduction to index numbers and time series analysis.

326. Money and Banking. *Mr. Dince* and *the Staff.*
Money in the economic organization; monetary theory; methods of stabilizing the price level; theories of bank deposits; discount policy and the interest rate of central banks; regulation of credit.

334. Personal Finance. *The Staff.*
Principles and practices involved in buying on credit; borrowing money, saving money, buying securities, insurance, annuities, real estate; problems of taxation and wills.

358. (Geography) Economic Geography. *Mr. Prunty.*
Relation of geographic factors to economic conditions in determining the nature and location of the several productive occupants; distribution of the output.

360. Principles of Marketing. *Mr. Troelston* and *the Staff.*
Principles and methods involved in the movement of goods and services from producers to consumers.

361. Marketing Problems. Prerequisite: Economics 360. *Mr. Troelston* and *the Staff.*
Merchandise policy; channels of distribution; brand policy; organization and control methods; price policies and legislative regulation.

386. Labor Economics. *Mr. Segrest* and *the Staff.*
Survey of labor organization, wages, hours, unemployment, labor legislation, and current developments in labor.

400. (Anthropology) Early Economic Systems. Prerequisites: Anthropology 102 and Economics 5x. *Mr. Kelly.*
Economic life of primitive peoples: concepts and principles of classical economics, developed in Western civilization, are studied in the light of practices and thought among primitive groups in Asia, Africa, and the South Pacific.

406. Advanced Economic Theory. *Mr. Smith.*
Application of theoretical tools to value, distribution, money, business fluctuations, and the relationships between government and business.

421. Punched-Card Statistics. Prerequisites: Business Administration 315 and an introductory course in statistics. *The Staff.*
Use of punch-card machines in the treatment of numerical data; preparation of statistical surveys in a form suitable for machine use in the processing of the data; use of tables in the form of pre-punched cards.

430. Corporation Finance. *Mr. Dince.*
Promotion and organization of corporations; forms of securities issued; problems of financial administration; analysis of causes of failure; rehabilitation of bankrupt corporations.

431. Investments. Prerequisite: Economics 326. *Mr. Dince.*
Elements of an "ideal" investment; examination and testing of specific investment securities.

432. Fundamentals of Investment Banking. Prerequisite: Economics 326. *Mr. Dince.*
Economics of investment banking; private investment banking machinery; institution investment banking.

434. (Political Science) Public Finance. *Mr. Dince.*
A general consideration of American public expenditures, revenues, and fiscal administration.

435. (Political Science) State and Local Public Finance. Prerequisite: Economics 434. *The Staff.*
Revenues, expenditures, and fiscal administration of Georgia and its political sub-

divisions; fiscal comparisons of Georgia with other states; and an analysis of intergovernmental tax relationships.

436. Business Cycles. *Mr. Sebba.*
Economic and social significance of business fluctuations; causes of business cycles; measures for controlling cycles; possibilities of business forecasting.

437. Comparative Economic Systems. *Mr. Smith* and *the Staff.*
Analysis and appraisal of the theories underlying economic systems; proposed and existing schemes with respect to the maintenance of full employment, distribution of income, and encouragement of progress.

441. (Political Science) Principles of Public Administration. *Mr. Hughes.*
General principles and problems of administrative organization, relationships and controls in the United States: personnel, financial administrative law; the growth and significance of administrative legislation and adjudication; influence of political and social beliefs, legislatures and pressure groups.

442. (Political Science) Public Personnel Administration. *Mr. Collins.*
Procedures, policies, and problems of governmental personnel administration; field trips and field studies of governmental agencies give the student firsthand knowledge of governmental personnel administration.

443. (Political Science) Public Financial Administration. *Mr. Hughes.*
Activities involved in the collection, custody, and expenditure of public revenue: the assessment and collection of taxes; public borrowing and debt administration; preparation and enactment of the budget; financial accountability and the audit.

444. (Political Science) Government and Business. *Mr. Smith.*
Economic aspects of business regulation by the government; regulatory developments and methods in the United States; loans and subsidies; fact-finding agencies; government-owned corporations.

450. Monetary Policy. Prerequisite: Economics 326. *Mr. Dince.*
Advanced treatment of problems introduced in Economics 326.

455. Contemporary Economic Problems. *Mr. Lorenz* and *Mr. Smith.*
Application of economic theory to certain problems of contemporary economic life, such as monopoly, business cycles, tariffs, inflationary influences, industrial conflict, etc.

465. Marketing Research and Analysis. Prerequisite: Economics 361. *Mr. Troelston.*
Scientific method in the construction of general marketing research studies; the solution of specific distribution problems; qualitative market analyses; market trends; data collection, tabulation, and interpretation.

466. Economics of Consumption. *Mr. Troelston.*
Economics of the consumer market; the process of consumption; position and responsibilities of the consumer; desirable controls of consumption.

475. Economics of Transportation. *Mr. Lemly* and *Mr. Smith.*
Study of the economic principles of transportation with special emphasis on the history and regulation of railroads.
Majors in Aeronautical Administration will be required to complete additional assignments in air transportation.

480. International Trade. *Mr. Smith* and *the Staff.*
Economic importance and problems of international trade; exchange rates and monetary standards; tariffs and other trade barriers; debts; the position of international trade in the post-war world.

488. The Securities Market. *The Staff.*
Organization and functions of the New York Stock Exchange; types of transactions; types of traders; brokerage houses; speculation; relation of business cycles to stock prices; forecasting.

489. The Labor Movement. Prerequisite: Economics 386. *Mr. Segrest.*
Historical background of modern industrial relations; economic, social, and political forces contributing to the current problems in labor economics.

490. Labor Legislation. Prerequisite: Economics 386. *Mr. Segrest.*
State and federal legislation in the field of industrial relations.

492. (Political Science) American Administrative Law. *Mr. Saye.*
Legal principles and practical doctrines involved in work of administrative tribunals (the Interstate Commerce Commission, Federal Trade Commission, etc.) vested with quasi-legislative or quasi-judicial powers, or both.

487 Commodity Exchange

494. European Economic History. *Mr. Lorenz.*
Development of the economic aspects of civilization in medieval and modern times; evolution of economic institutions; historical background of present economic problems.

511. Rate Making. *Mr. Smith.*
Rate structure and rate level problems of transportation and utility industries; classification practices and techniques; rate relationships.

577. Public Utilities. *Mr. Smith.*
Development, characteristics, rights and duties of public utilities; problem of regulation and rates; service; securities; holding companies in the electric utilities; activities of the Federal government in the power field.

585. Personnel Administration. Prerequisites: Psychology 1 and Economics 386. *Mr. Roman.*
Principles and practices in the field of the administration of human relations in industry; scientific techniques and devices in the development of a well-rounded personnel program.

591. Applied Economic Statistics. Prerequisite: Economics 312 or Mathematics 356. *Mr. Sebba.*
Various statistical methods and techniques applied to economic fields such as marketing, advertising, labor management, production, banking, investments.

GRADUATE COURSES

(Students interested in graduate work in the College of Business Administration should write to the Graduate School, University of Georgia, for a complete list of graduate offerings. The courses listed below are available for graduate students only. Courses numbered in the 400 and 500 series are offered jointly to graduate and undergraduate students).

Business Administration 775. Management of Business Research Programs. *Mr. Gill.*
Organization and financial management of business research programs is enterprises; by size, by function, and by relative position in the field.

Business Administration 854. Accounting Theory. *Mr. Heckman.*
History and development of accounting theory with special emphasis on the new principles being advocated at the present time; the influence of legislation on accounting theory.

Economics 760. Seminar in Marketing and Sales Administration. *Mr. Troelston.*
Sales and marketing problems with emphasis upon current developments in wholesale and retail agencies. Permission of the instructor required.

Economics 792. Applied Business Research. *Mr. Gill.*
Applications of business research results in the determination of policy and in the planning of operations of business enterprises.

Economics 807. The History of Economic Thought. *Mr. Smith.*
The evolution of the important principles of economics with emphasis on the history of the theories of value and distribution. Permission of the instructor required.

Economics 844. Seminar in Government Thought. *Mr. Smith.*
Current issues in the field of governments' relation to business with particular emphasis on problems associated with monopoly and competition.

Economics 850. Research in Money and Banking. *Mr. Dince.*
Individual research in money and banking. Permission of the instructor required.

Economics 886. Problems in Industrial Relations. *Mr. Segrest.*
Current problems in industrial relations with particular emphasis on the current status of unionism in the Unitel States in terms of the effects of union organization, policies, and methods upon employer-employee relations.

Economics 890. Index Numbers. *Mr. Sebba.*
Index number construction and interpretation; a survey of the most important index numbers currently used in economic statistics.

Economics 891. Research in Applied Economic Statistics. *Mr. Sebba.*
Individual research in the application of statistical methods to economic problems. Permission of the instructor required.

Economics 892. Time Series Analysis. *Mr. Sebba.*
Statistical times series analysis and its application to economic analysis.

Economics 893. Economics Seminar. *The Staff.*
A research problem in the field of major concentration under personal supervision of the major professor. Permission of the instructor required.

THE HENRY W. GRADY SCHOOL OF JOURNALISM

JOHN ELDRIDGE DREWRY, A.B., B.J., A.M., *Dean*

GENERAL INFORMATION

Journalism, in terms of career opportunities and as taught in the Grady School, is a broad, challenging, remunerative, personally satisfying, and socially useful field.

There was a time when to many persons the word *journalism* meant only newspaper work, perhaps reporting. Important as is the newspaper, and essential to the welfare of a democracy as is accurate and truthful reporting, journalism embraces today a great deal more than the daily and weekly press.

Journalism, in the broad sense, includes metropolitan dailies, small town dailies and weeklies, press associations and syndicates, radio and television, employee publications and trade journals, general magazines, various aspects of book publishing, advertising and public relations, much of the production and promotion work in motion pictures and the theatre, and editorial, instructional, and research work for schools, colleges, and various social agencies—the entire communications field.

Many executives and leaders in various walks of private and public life have had newspaper and other journalistic experience and have testified to the general educational value of such work. Journalism, just as the law, is both a profession within itself and an excellent preparation for dealing with the multifarious problems of life.

Just as the term *journalism* once was interpreted to mean only the newspaper, so the expression *education in journalism* has been thought by some to be merely vocational preparation for newspaper work. Actually, the curriculum leading to the degree of Bachelor of Arts in Journalism is not narrowly vocational or technical, but is designed to combine the essential elements of a liberal education and of professional training, both of which are useful and desirable in journalistic work. The requirements of the journalism degree, based upon a four-year course, include not only professional and technical courses in all phases of journalism, but the basic courses in rhetoric, English and American literature, history, political science, economics, sociology, and other liberal arts subjects.

SUPPLEMENTARY MAJORS AND CHOICE OF SEQUENCES

The A.B. in Journalism curriculum, moreover, while requiring less science and language than the traditional A.B. degree, is sufficiently flexible to permit the student to take a supplementary major in such subjects as English, history, and psychology, in addition to that in journalism. Thus, for example, a student who wishes to be prepared to teach and supervise school publications and publicity may take the required courses in education in connection with the journalism degree. In the same way, a student may combine journalism with art, English, history, economics, or other related subjects in which he is interested.

A candidate for the A.B. in Journalism degree has a choice among seven sequences: *News-Editorial*, *Radio-Television-Journalism*, *Advertising-Public Relations-Business*, *Journalistic-Literary Appreciation*, *Journalistic-Secretarial*, *Home Economics-Journalism*, and *Airline-Stewardess-Reservationist Journalistic*. A student ordinarily does not make a selection among the sequences until the beginning of his junior year, or after he has had orientation courses and counseling in the various phases of journalism.

JOURNALISM HAS MULTIPLE APPEALS

In addition to those planning careers in some phase of journalism, courses in the School of Journalism are chosen by several other groups, such as the following:

(1) Pre-Divinity Students. Because of the value of a knowledge of the communications field in their later religious duties, an increasing number of young men and women are taking journalism as pre-Divinity School preparation. In this way, they get not only a liberal arts background, but also the techniques and skills of journalism which are useful to the religious worker.

(2) Those who are interested in writing and who see in journalism courses an opportunity to develop ability in observation, clear thinking, accuracy, and effective expression.

(3) Those who recognize the cultural benefits of certain courses, such as the history of journalism, contemporary American magazines, and literary criticism. These students feel that work in journalism, including the reporting of lectures and addresses, interviewing visiting celebrities, and doing the research necessary to the writing of special articles or editorials, vitalizes and increases the appeal of their other liberal arts subjects.

(4) Those students who are interested in journalism as a social science. These young people, realizing that the press and radio-tv, along with the schools and churches, are a great social agency which reflects and in a measure directs civilization's evolving processes, choose certain courses in the School of Journalism just as they would choose those in sociology or government.

(5) Those students who see the practical usefulness of a knowledge of journalism in their after-college days. All the students in the School of Forestry, for example, are required to have one course in journalism and one in public speaking on the theory that after their graduation both subjects will be useful to them. In the same way, home economics, business administration, and pre-law students often elect courses in journalism.

(6) Those who appreciate the fact that the consumers of jouranlism will always far outnumber the producers and that a liberal education should include an understanding of newspapers, magazines, and contemporary books, which will constitute an important part of their reading in after-college days.

The relationship of a free press to the democratic form of government, and the increasing references to this subject in political discussions here and abroad, make a knowledge of journalism a necessary part of liberal education.

PRACTICAL WORK

Journalism instruction includes not only textbook study, lectures, recitations, and analytical assignments, but practice under careful supervision. An effort is made to anticipate in the School of Journalism the conditions which will confront the journalism graduate. In the reporting classes, for example, students cover standard sources of news, both in the city and on the campus, gathering and writing their copy with a view to publication either in the campus newspaper or in the Athens daily newspaper, which cooperates with the School by publishing meritorious student work. Theoretical instruction in broadcasting, editing, headline writing, and make-up is supplemented with laboratory practice. Many of the students make their first contacts with newspapers and magazines by submitting and having accepted feature articles written in connection with their work in the course devoted to that subject. Field trips, publication of special editions, and work as correspondents for metropolitan newspapers and press associations are all a part of the practical training. Several students work for the local newspaper and radio stations.

INTERNSHIPS AND "CO-OP" STUDY

Back in 1931, the Grady School pioneered with internships in journalism, an adaptation of a long-established medical practice. Under this arrangement, the better students are placed with newspapers, radio-television stations, advertising departments, and other phases of journalism for a quarter of practical experience, over and above that which is part of their resident journalism classes. These internships are usually arranged for the vacation period between the junior and senior years, but may be scheduled for other quarters. The "Co-op" plan of study is also open to journalism students. This is an arrangement whereby two students alternate, quarter by quarter, university study and employment in the field. Arrangements for internships and "co-op" study are made through the office of the Dean of the School of Journalism.

BUILDING AND EQUIPMENT

The School of Journalism is housed in the Commerce-Journalism Building which was completed in the spring of 1928 and to which a large addition was made in 1947-48. In addition to ample classroom space, there is a modern radio studio; a record and seminar room; an editorial laboratory equipped with typewriters, press association wire service, and a copy desk; a large reading room with many newspapers and periodicals; a dark room for the photography course; and a large auditorium for special lectures, institutes, and conferences.

The printing division of the University is a department of the School of Journalism, and serves as the typography laboratory of the School. The purpose of the laboratory work is not to teach printing but to familiarize students with the principles of typography involved in editing copy, writing headlines, preparing advertising layouts, and in making up newspapers and magazines.

EMPLOYMENT OF GRADUATES

Graduates of the School of Journalism are filling excellent positions with newspapers, press associations, advertising agencies and departments, book and magazine publishers, schools and colleges, radio and television stations, and specialized publications in all parts of the country. Although the School of Journalism does not guarantee to secure positions for its graduates, members of the faculty gladly assist those whose records in the classroom and in extra-curricular activities recommend them for employment. A recent study showed that a high percentage of the School of Journalism graduates is profitably employed in various phases of journalism. Some of these Grady almuni hold very important positions and have made national reputations for themselves and their alma mater.

GEORGIA PRESS INSTITUTE

Sponsored jointly by the Georgia Press Association and the School of Journalism, the Georgia Press Institute is designed to assemble annually newspaper men and women, teachers of journalism and their students, and public men for round table conferences, lectures, and addresses on subjects of contemporary journalistic interest. Many prominent persons have been brought to Athens on these occasions. The Press Institute is in its 27th year.

GEORGIA RADIO AND TELEVISION INSTITUTE

Sponsored jointly by the Georgia Association of Broadcasters and the Henry W. Grady School of Journalism, the Georgia Radio and Television Institute is patterned after the Press Institute, and assembles broadcasters and students to hear addresses by leading persons in the industry and to discuss, at round table sessions, various contemporary broadcasting-telecasting problems. The 1955 Radio and Television Institute was the tenth annual session.

SOUTHERN INDUSTRIAL EDITORS' INSTITUTE

Sponsored jointly by the Southern Industrial Editors' Association and the Henry W. Grady School of Journalism, the eighth annual session of the Industrial Editors' Institute was held during the fall of 1954. Patterned after the Press Institute and the Radio and Television Institute, the emphasis was on employee publications, trade journals, public relations, and specialized magazines. Outstanding authorities in these fields were the principal speakers.

GEORGIA SCHOLASTIC PRESS ASSOCIATION

Sponsored by the School of Journalism and the University chapter of Sigma Delta Chi, the annual conventions of the Georgia Scholastic Press Association are held in Athens during the early part of May. The program of these conventions is designed to be helpful to the high school journalists of the state, and includes addresses, lectures, and round table discussions of various phases of school publication work. The association was organized June 14, 1928 at the University with this three-fold objective: (1) to stimulate interest in high school writing courses; (2) to raise the standards of high school journalists; and (3) to bring about a closer association between the Henry W. Grady School of Journalism and the high school students in Georgia interested in journalism. Through the Association, scholarships, prizes, and certificates of distinction are awarded to meritorious high school newspapers and staff members by the School of Journalism.

GEORGIA COLLEGIATE PRESS ASSOCIATION

Also organized (May 5, 1933) by the School of Journalism and the University chapter of Sigma Delta Chi is the Georgia Collegiate Press Association, which has the following objectives: (1) to provide a closer association among the college journalists of Georgia; (2) to provide a means of recognizing meritorious journalistic efforts through the annual award of suitable distinctions; (3) to raise the standards of the college press of Georgia; and (4) to foster among college journalists of Georgia an interest in journalism not only as a profession but as an important social science. Meetings of this association similar to those of the Georgia Scholastic Press Association are held regularly.

THE PEABODY RADIO AND TELEVISION AWARDS

The George Foster Peabody Radio and Television Awards provide annual recognition of programs, stations, networks, and individuals. They recognize the most disinterested and meritorious public service rendered each year by the broadcasting and telecasting industry, and perpetuate the memory of George Foster Peabody, benefactor and life trustee of The University of Georgia.

These awards were established in May, 1940, by the Board of Regents of the University System of Georgia. Nationally prominent Americans constitute the personnel of the Advisory Board, which through the School of Journalism, administers these Awards. They are:

Edward Weeks, Editor, *Atlantic Monthly*, Boston, Chairman.

Mrs. Elizabeth Ames, Executive Director, "Yaddo," Saratoga Springs, New York.

John H. Benson, Chairman, Committee on Consumer Relations in Advertising, Inc., New York City.

Bennett Cerf, President, Random House, Inc., New York City.

John Crosby, Radio-TV Columnist, *New York Herald-Tribune.*

Mark Ethridge, Publisher, *Louisville* (Ky.) *Courier-Journal* and *Times.*

Earl J. Glade, Mayor of Salt Lake City, Utah.

Philip Hamburger, Television Writer, *The New Yorker.*

Terrence O'Flaherty, Radio-Television Editor, *San Francisco* (Calif.) *Chronicle.*

Waldemar Kaempffert, Science Editor, *New York Times.*

Mrs. Dorothy Lewis, Coordinator, U. S. Station Relations, United Nations.

Ralph McGill, Editor, *Atlanta Constitution.*

Paul Porter, formerly Chairman, Federal Communications Commission, Washington, D. C.

I. Keith Tyler, Director of Radio Education, Ohio State University, Columbus, Ohio.

Ex-Officio

The Chancellor, University System of Georgia.

The Dean, Henry W. Grady School of Journalism, University of Georgia.

SIGMA DELTA CHI

The University of Georgia is one of the few Southern institutions having a chapter of Sigma Delta Chi, national professional journalistic fraternity. The Georgia chapter was installed in 1928. Its membership is restricted to those male students with good scholastic standing whose professional journalistic work is of meritorious character. Sigma Delta Chi sponsors extra-curricular journalistic activities of various kinds, and aims to promote higher journalistic ideals in the School and in the state. The Sigma Delta Chi Scholarship Award is presented to those in the upper ten per cent of the graduating class. The University chapter sponsored the organization of the Atlanta professional chapter of Sigma Delta Chi.

THETA SIGMA PHI

Composed of a selected group of advanced women students, Theta Sigma Phi is a national fraternity designed to advance the interests of women journalists. Membership is restricted in a manner similar to that of Sigma Delta Chi. The local chapter has its own extra-curricular journalistic activities, but cooperates with Sigma Delta Chi in joint undertakings.

DI GAMMA KAPPA

Di Gamma Kappa is a national professional radio-tv fraternity. Organized at the University of Georgia in 1939, it sponsors various extra-curricular activities for students interested in broadcasting, and cooperates with the School of Journalism in the conduct of the Georgia Radio and Television Institute and similar special occasions.

KAPPA TAU ALPHA

Kappa Tau Alpha recognizes and encourages high scholarship among students in journalism. Membership is restricted to the upper ten per cent of the graduating seniors. The University of Georgia chapter was the seventh to be established in the nation.

ALPHA DELTA SIGMA

A chapter of this national professional advertising fraternity, named in honor of Samuel C. Dobbs, was installed in the Grady School April 24, 1954. Membership is open to advertising majors with superior records.

SCHOLASTIC FRATERNITIES AND CLUBS

Students in the School of Journalism are eligible for election to Phi Beta Kappa and Phi Kappa Phi, honorary scholastic fraternities. Membership is

awarded to a limited group of seniors, the selection being made on the basis of character and high scholarship. In addition to the scholastic, professional, and social fraternities at the University, there are other honorary clubs and organizations, membership in which is open to journalism students.

STUDENT PUBLICATIONS

The University has a weekly newspaper, *The Red and Black*, the editorial staff of which is composed largely of students in the School of Journalism. The campus annual, *The Pandora*, and other publications also have journalism students on their staffs.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS IN JOURNALISM

Non-journalism courses required in all sequences (core curriculum):

	Hours
English 2 x-y	10
Physical Science (two courses to be selected from Astronomy, Chemistry, Earth Science, Geology, Mathematics, Physical Science Survey, and Physics)	10
Biological Sciences (two courses to be selected from Bacteriology, Biology, Botany, Human Biology Survey, Laboratory Psychology, and Zoology)	10
Foreign Language	10 or 15

Students who offer for entrance two or more units of a foreign language (Greek, Latin, French, German, Spanish, Italian, or Portuguese) are required to take at least two courses in college in foreign language. Students who choose to continue in college the language they offered for entrance are required to take courses 103 *and* 104. *Those students who enter without any foreign language credits may absolve the language requirement by taking either two courses in each of two languages or three courses in one language.*

Social Sciences (Economics 5x or 5y, Geography 101, Philosophy 104, Social Science 4, or Sociology 5)	5
English 22 x-y	10
History 110 x-y or 350 x-y	10

Examinations on the history of the United States and Georgia are required of all persons receiving a degree from the University unless exempted by credit in courses dealing with this history. Courses approved for this purpose are History 100 *and* 350 x-y.

Political Science 1	5
Psychology 1	5
Physical Education 1-2 and Military Science 1-2 or Air Science 5-6 (for men) or Physical Education 1-2 (for women)	10
Total	85 or 90

Those students who cannot operate a typewriter are advised to take Business Administration 7, 303, *and/or* 304 *during the fall and winter quarters of their freshman year.*

A student will not be permitted to register for senior division courses until he has passed the non-journalism courses in the foregoing core curriculum.

Journalism 1 or 350 (Reporting and News Writing)	5
Journalism 20 or 420 (Principles, Ethics, and Literature)	5
Journalism 30 or 430 (History)	5
Journalism 100, 200, 300 (Production)	5
Journalism 351 (Editing)	3
Journalism 360 (Advanced Reporting)	5
Journalism 454 (Law)	5

Journalism 456 (Magazines)	5
Journalism 557 (Advertising)	5
Journalism 580 (Radio-Television)	5
	48

NEWS-EDITORIAL SEQUENCE

Journalism courses required, in addition to core curriculum:

Journalism 352 (Typography and Make-up)	3
Journalism 364 (Management)	3
Journalism 377 (Photography) or Journalism 553 (Editorials)	3
Journalism 440 (Public Opinion) or Journalism 577 (Public Relations)	5
Journalism 558 (Feature Writing)	3
Journalism 559 (Book Reviewing) or Journalism 467 (Contemporary Newspapers)	3
Journalism 581 (Radio-Television News)	5
Total	25

Supplementary Major of at least 25 hours from such social sciences as history, political science, sociology, and psychology. Electives to complete a total of 195 hours.

RADIO-TELEVISION-JOURNALISM SEQUENCE

Journalism 581 (Radio-Television News)	5
Journalism 582 (Radio-Television Programming)	5
Journalism 583 (Radio-Television Workshop)	5
Journalism 584 (Radio-Television Advertising)	5
Journalism 585 (Television), Journalism 386 (Oral Interpretation), or Journalism 387 (Dramatic Interpretation)	5
Total	25

Supplementary Major of at least 25 hours from drama, music, and speech. Electives to complete a total of 195 hours.

ADVERTISING-PUBLIC RELATIONS-BUSINESS SEQUENCE

Journalism courses required, in addition to core curriculum:

Journalism 208 (Advertising Layout) or Journalism 440 (Public Opinion)	5
Journalism 352 (Typography and Make-up)	3
Journalism 364 (Management) or Journalism 579 (Newspaper Advertising)	3 or 5
Journalism 575 (Advertising Copy)	5
Journalism 576 (Advertising Media)	5
Journalism 584 (Radio-Television Advertising), Journalism 577 (Public Relations), Journalism 578 (Retail Advertising)	5
Total	26 or 28

Supplementary Major of at least 25 hours from the humanities, fine arts, social sciences. (American and English literature courses especially recommended.) Electives to complete a total of 195 hours.

JOURNALISTIC-SECRETARIAL SEQUENCE

Journalism courses required, in addition to core curriculum:

Journalism 352 (Typography and Make-up)	3
Journalism 377 (Photography)	3
Journalism 440 (Public Opinion) or Journalism 577 (Public Relations)	5

Journalism 553 (Editorials)	3
Journalism 558 (Feature Writing)	3
Journalism 559 (Book Reviewing) or Journalism 467 (Contemporary Newspapers)	3
Journalism 581 (Radio-Television News)	5
Total	25

Supplementary major of at least 25 hours, including Business Administration 8, 6x or 370, 300 a-b-c, 310, and necessary courses in typing. Electives to complete a total of 195 hours.

Airlines Stewardess-Reservationist-Journalistic Sequence

The airlines have expressed a desire to obtain airline stewardesses and reservationists with college degree backgrounds. The University of Georgia has, therefore, set up an approved training program in several of its divisions, including the Henry W. Grady School of Journalism. Following is a description of this training program, as offered by the School of Journalism, leading to the degree of Bachelor of Arts in Journalism:

Physical Qualifications: *Ages*—not over 26 upon graduation; Height—5 ft. to 5 ft. 7 inches; Weight—100 to 125 lbs. (in proportion to height). Should student fail to meet the physical qualifications, she may still qualify for the position of Airline Reservationist under this training program.

Flight Training: Flight training is not required under this program; however, those students who may desire to learn to fly are eligible for membership in the Georgia Aero Club, a flying club operated by university students.

Special Courses Required for Airlines-Reservationist-Journalistic Sequences:

Psychology 1	5 hrs.
Geography 1	5 hrs.
Speech 3	3 hrs.
Home Economics 5	3 hrs.
Home Economics 325	3 hrs.
Home Economics 344	3 hrs.
Business Administration 324	3 hrs.
Business Administration 329	3 hrs.
Business Administration 330	3 hrs.
Business Administration 331	3 hrs.
Business Administration 332	3 hrs.
Total	39 hrs.

Other Courses Required: Core curriculum (non-journalism and journalism), plus any one of the major sequences in journalism, minus the supplementary major (the special courses listed above will, for the airlines stewardess and reservationists, constitute the supplementary major).

Home Economics-Journalism Sequence

	Hours
Non-journalism courses required in all sequences (core curriculum)	85 to 90
Journalism courses required in all sequences (core curriculum), plus Journalism 208 and 558	56
Home Economics 5 (Meal Planning and Serving)	5
Home Economics 20 (Clothing Construction)	5
Home Economics 325 (How to Dress)	5
Home Economics 293 (Family Relationships)	5
Home Economics 343 (Care of the House)	5
Home Economics 370 (Family Food Buying)	3

Home Economics 390 (Family Fundamentals) 3
Electives, chosen with approval of Dean of School of Journalism, to complete a total of 195

A minimum grade of C is required in all major subjects. All supplementary major subjects and electives shall be chosen with the approval of the Dean of the School of Journalism and are determined by the sequence in which the student is especially interested.

FIVE-YEAR SEQUENCE

A student who has received the A.B. degree from a college belonging to a standard regional association may satisfy the requirements for the A.B. in Journalism degree with a minimum of 45 hours in Journalism, selected with the approval of the Dean of School of Journalism. Such a student must be in residence at the University three quarters.

COMBINATION GRADUATE COURSE IN JOURNALISM AND BUSINESS ADMINISTRATION

The degree of Master of Business Administration may be taken as a combination curriculum of the School of Journalism and the College of Business Administration, leading to the degree of A.B. in Journalism in four years, and the M.B.A. after an additional four quarters of study. This program is designed to aid those anticipating interpretative writing in economics and related fields, and also those who plan to work in the business phases of journalism.

Students who contemplate pursuing this combination should register for the Advertising-Public Relations-Business Sequence, A.B. in Journalism degree. The supplementary major plus electives (totaling 40 hours) should be selected from offerings of the College of Business Administration, including Economics 5x (Principles of Economics), Business 6x (Accounting), and the Business Administration core curriculum with the exception of Business Administration 370.

As a graduate of the School of Journalism with the foregoing undergraduate courses, the student may complete the requirements for the M.B.A. degree in four quarters. At least 40 of the 60 hours required for this degree must be taken from offerings of the College of Business Administration. The remaining 20 hours may be taken as a minor in the School of Journalism.

COMBINATION COURSE IN JOURNALISM AND LAW

An understanding of the various phases and techniques of journalism is of much value to the lawyer. Likewise, a knowledge of the law is useful to the journalist. On this premise, a combination law and journalism curriculum has been set up, similar to that which exists in the College of Arts and Sciences and the College of Business Administration. This is a six-year program, leading to the two degrees, Bachelor of Arts in Journalism and Bachelor of Laws. Under this arrangement, the first year in the School of Law takes the place of the fourth year in the School of Journalism. The student must, however, satisfy all the specific course requirements in the School of Journalism, including the non-journalism courses in the core curriculum, the journalism courses required in all sequences, and the journalism courses in the particular sequence chosen by the student. The work in law, in this joint program, becomes the supplementary major required of all candidates for the journalism degree. Under this joint arrangement, the degree of A.B. in Journalism will be granted upon the satisfactory completion of the first year of law and a total of 185 quarter hours (exclusive of physical education and/or military or air science).

MASTER OF ARTS

The Master of Arts will be conferred upon the completion of a major in Journalism, a minor in the social sciences, a minor in English, and the preparation of a satisfactory thesis upon the subject assigned. Prerequisites for admission as a prospective candidate for this degree include an approved bachelor's degree from an accredited institution and the necessary undergraduate courses in Journalism.

ONE-YEAR COURSE

To serve as a refresher course for returned veterans and others who wish to spend only one year in college, the School of Journalism offers a special three-quarter program, normally consisting of 45 hours in journalism and related subjects. Only those persons with a serious and definite reason are admitted to this short program. A student who enrolls for the special one-year program may later become a candidate for the A.B. in Journalism degree by meeting all entrance and residence requiremnts.

COURSES OF INSTRUCTION

(Commerce-Journalism Building, North Campus)

The University reserves the right to withdraw any course for which the registration is not sufficiently large, and to offer courses not here listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated all courses meet five hours a week and carry five hours credit.

FRESHMAN AND SOPHOMORE CLASSES

1. Introduction to Journalism. *Mr. Bullock, Mr. Tyus Butler,* and *Mr. Drewry.*
A survey of the communications field, including writing therefor.

20. Principles and Ethics of Journalism. *Mr. Drewry.*
A study of the fundamentals of journalism, including ethics, practices, and trends.

30. History of Journalism. *Mr. Tyus Butler.*
A study of the development of the newspaper, particularly in the United States, including biographical studies of outstanding editors, a consideration of journalism in its various periods and conditions, and the aims of journalism.

40. Public Opinion and Journalism. *Mr. Tyus Butler, Mr. Hippchen,* and *Mr. McDougald.*
A study of the influence of journalism upon opinions, standards of living, tastes, and morals in American life. This course includes a survey of the theory of public opinion, particularly the part of newspapers, magazines, radio, television, and other agencies of communication in the development of the intelligent public mind.

100. Journalistic Production. 1 to 5 hours. Prerequisite: Journalism 1 or 350. *The Staff.*
Reportorial, editorial, and advertising work, with the Red and Black and other campus and local publications and organizations, under faculty supervision.

JUNIOR AND SENIOR COURSES

200. Journalistic Production. 1 to 5 hours. Prerequisite: Permission of the Dean of the School of Journalism. *Staff.*
A management conference course for those holding major elected position on the Red and Black.

208. Advertising Art. *Mr. Dodd* and *Art Staff.* (Also offered as Art 208.)
Fundamentals of lettering, color, design, typography, packaging, and reproduction as related to modern advertising problems. Layout of newspaper, magazine, and direct-mail advertising.

300. Journalistic Production (Internship). 1 to 15 hours. Prerequisites: Basic courses in technique and permission of the Dean of the School of Journalism. *The Staff.*

A few superior students of junior or senior standing will be permitted to register for this course as a means of obtaining practical experience over and above that offered in this School. The exact amount of credit will be determined by the circumstances in each case, but the maximum credit for Journalism 100, 200, and 300 is 15 hours.

343. Management of Commercial and Trade Organizations. 3 hours. (Also offered as Business Administration 451.) *The Staff* and *special lecturers.*

A study of the functions, programs, structure, policies, financing, public relations, administration, and legal aspects of commercial and trade organizations.

344, 345, 346. Radio-Television Acting and Production. Three separate three-hours courses. Prerequisite: Speech 3 or Drama 2 and/or consent of instructor. (Also offered as Speech 344, 345, 346.) *Mr. Ballew.*

An advanced course in radio-television acting and script analysis. Plays will be rehearsed in the Laboratory Theatre and radio plays broadcast from the studio in the Commerce-Journlism Building. An elective course open to all juniors and seniors who have had Drama 34, 35, 36 and/or consent of the instructor.

347. Radio-Television Speech. Prerequisite: Speech 8 or 50. (Also offered as Speech 347.) *Mr. Strother.*

A thorough analysis and study of diction, pronunciation, and script interpretation for the radio-television announcer.

350. Basic Communications Techniques. *Mr. Bullock, Mr. Tyus Butler,* and *Mr. Drewry.*

The senior division introductory course in journalism, including news values, reporting, and writing.

351. Copy Reading and Editing. 3 hours. Prerequisite: Journalism 1 or 350. *Mr. Bullock, Mr. Tyus Butler,* and *Mr. McDougald.*

The basic course in editing for all types of publications, with special emphasis on newspaper and press service copy. Headline and caption writing.

352. Make-up and Typography. 3 hours. Prerequisites: Journalism 1 or 350 and 351. *Mr. Tyus Butler* and *Mr. Kraps.*

A continuation of Journalism 351, with special emphasis on newspaper and periodical make-up and typography. Practical work is made possible by a printing laboratory.

360. Advanced Reporting and Writing. Prerequisites: Journalism 1 or 350. *Mr. Tyus Butler* and *Mr. McDougald.*

Theory and practice in covering news of governmental activities, together with a detailed survey of municipal, state, and federal organizations and the administration of public affairs.

361. Dramatic Criticism. 3 hours. *Mr. Ballew* and *Staff.*

Theory and practice in reviewing stage productions, motion pictures, and concerts.

362. The Short Story. 3 hours. *Staff.*

A practical writing course for students who have mastered the fundamentals of English expression and who are interested in writing fiction for contemporary magazines or other markets.

364. Newspaper Management. 3 hours. *Mr. Bullock, Mr. Tyus Butler,* and *Mr. Hippchen.*

Business and editorial management of daily and weekly newspapers, including circulation, advertising, and promotion.

368. Contemporary Journalistic Practice. *Mr. Tyus Butler, Mr. Drewry,* and *Mr. McDougald.*

A survey of news and feature work for newspapers, radio-tv, and periodicals, for specialized groups, such as students in agriculture, home economics, county agents, etc. Special attention will be given to publicity and public relations.

376. (Physics) Principles of Photography. 3 hours. One hour of recitation and four hours of laboratory work. Prerequisite: Physical Science 1, Physics 20, or the equivalent. Supply deposit, $10. *Mr. Dixon.*

An elementary approach to the factors involved in the choice of a camera, the exposure and development of the film, the production of contact prints, the enlargement of prints, and color photography.

377. Journalistic Photography. 3 hours. *Mr. McDougald* and *the Staff.*

A study of the photographic requirements of newspapers and magazines and the technique of news photography with elementary training in the use of various cam-

eras, development, and enlarging. Selection of photographs for publication, including editing, scaling to size, the engraving processes, and caption writing.

386. Radio-Television—Oral Interpretation of Literature. Prerequisite: Speech and/or permission of instructor. (Also offered as Speech 386). *Mr. Popovich.*

A study of the techniques of literary analysis for effective oral reading of lyric and narrative literature and the development of vocal flexibility through a variety of problems in phrasing and emphasis, with special reference to radio-tv.

387. Radio-Television—Dramatic Interpretation. Prerequisite: Speech 8 and/or permission of instructor. (Also offered as Speech 387). *Mr. Popovich.*

A study of the theory, techniques, and principles of interpretation of drama from the points of view of the oral interpreter and actor. Development of oral skills through the study of selected plays and monologues—with special reference to radio-tv.

JUNIOR-SENIOR OR GRADUATE COURSES

400. Foreign News and the European Press. (Offered *in absentia*, with all class periods on shipboard or in Europe). Prerequisite: Consent of the Dean of the School.

An investigative pro-seminar course open to a limited number of advanced students who arrange to travel under the supervision of the instructor. With the cooperation of American newspaper and press services, students will conduct research in European capitals through conferences with American foreign correspondents, visits to European newspapers, meetings with representatives of governmental propaganda ministries, and lectures by the instructor.

420. The Literature of Journalism. *Mr. Drewry.*

An advanced study of the origins and fundamentals of modern journalism, including ethics, practices, and trends, with emphasis on the literature of the entire communications field.

430. History of Journalism. *Mr. Tyus Butler.*

An advanced course in the history of journalism in which the students make historical studies of certain newspapers or groups of newspapers, preferably Georgia or Southern, and biographical studies of editors.

440. Public Opinion and Journalism. *Mr. Tyus Butler* and *Mr. Hippchen.*

An advanced course devoted to an examination of the influence of the newspaper and other journalistic agencies in the direction and control of public opinion.

454. The Law of Communications. *Mr. Tyus Butler.*

A consideration of certain aspects of journalism (radio-television as well as the press), including libel, contempt of court, right of privacy, copyright, and postal laws.

456. The Magazine. *Mr. Drewry.*

This course is intended for two groups: (1) those who are interested in contemporary thought and in magazines as a phase of current American literature; and (2) those who plan to contribute to magazines, and therefore would know the markets. Attention is given to current American writers, particularly their work for the periodical press. Magazines are considered in historical and contemporary perspective.

467. Contemporary American Newspapers. 3 hours. *Mr. Tyus Butler.*

A study of outstanding present-day newspapers in the United States, including a consideration of their development, noted personalities of their staffs, and their characteristics and policies.

469. Georgia Journalism. Prerequisite: Journalism 30 or 430, Political Science 1, and History 459. *Mr. Tyus Butler* and *Staff.*

A study of the place of Georgia newspapers, periodicals, editors, and contributors in American history and in American journalism.

537. Public Relations. (Publicity). 3 hours. *Mr. Bullock, Mr. Hippchen,* and *Mr. McDougald.*

A 3-hour version of Journalism 577. See Journalism 577 for description.

553. The Editorial. 3 hours. Prerequisite: Journalism 1 or 350. *Mr. Bullock* and *Mr. Drewry.*

A study of the technique of writing various types of editorials, with practical assignments in each type. A study of interpretation and comment. Students in this course make critical analyses of representative editorial pages.

557. Advertising Practice. *Mr. Drewry.*

A survey of the advertising field, including maker, seller, advertising agency, and media—newspaper, magazines, billboards, radio-tv, etc. Theory and practice in writing various types of advertisements.

558. Feature Writing and Special Articles. 3 hours. *Mr. Bullock* and *Mr. Drewry.*

Theory and practice in writing articles of a varied character for newspapers, magazines, syndicates, trade journals, and radio-television.

559. Literary Appreciation. (Book Reviewing.) 3 hours. *Mr. Bullock* and *Mr. Drewry.*

A course in literary appreciation and evaluation, with the emphasis on current books and the preparation of reviews for newspapers, magazines, radio-tv, and specialized publications.

563. Advanced Feature, Ficture, and Radio-TV Writing. 3 hours. Prerequisite: A satisfactory grade in Journalism 362, 558, or 580. *The Staff.*

A continuation of production work begun in feature, fiction, or radio-tv writing, with emphasis on marketing, publication, or broadcasting.

566. Journalism in the Secondary School. (Also offered as Education 566). *Mr. Tyus Butler, Mr. Drewry,* and *Mr. Kitchens.*

A survey of news gathering, news writing, copy reading, typography, and business management, with specific relation to the high school newspaper. Also school public relations.

575. Advertising Copy Writing. Prerequisite: Journalism 1 or 350. *Mr. Hippchen.*

Principles and practice in the preparation of copy for a variety of media. Reader surveys, copy tests, and a study of products in relationship to copy and markets are a part of this course.

576. Advertising Media. Prerequisites: Journalism 1 or 350 and 557 or 575. *Mr. Hippchen.*

A study and evaluation of the principal advertising media, including newspapers, magazines, trade publications, radio-tv, outdoor, novelty, and cinema. The work of an advertising office or agency and the selling of space or time are considered.

577. Public Relations. (Publicity). *Mr. Bullock, Mr. Hippchen,* and *Mr. McDougald.*

A study of problems and techniques. Analyses of publicity campaigns and discussions of the ways in which various media can be utilized.

578. Retail Advertising Copy and Sales Promotion. Prerequisite: Journalism 575. *Mr. Hippchen.*

Analyses of overall promotion of the department store and other retailers. Preparation of copy for various types of retail advertisers and for the various media used by the retailer. Each student will write a term paper in the phase of retail advertising which particularly interests him.

579. Newspaper Advertising. Prerequisites: Journalism 1 or 350 and 557. *Mr. Hippchen.*

Basic practices, techniques, and problem of weekly, small daily, and metropolitan newspaper advertising departments. Newspaper advertising, sales promotion preparation, planning, research, and legal and ethical problems.

580. Radio-Television in Journalism. *Mr. Franklin Butler* and *Mr. McDougald.*

Radio and television as phases of journalism.

581. Radio-Television News. Prerequisite: Journalism 1 or 350, or special permission. *Mr. Franklin Butler, Mr. McDougald,* and *Mr. Womack.*

The processing of news for radio and television. Evaluation of stories, arrangements of 5 and 15 minute newscasts, news spots, and analysis of newscasts being presented over network and local stations.

582. Radio-Television Programming. Prerequisite: Journalism 580. *Mr. Franklin Butler, Mrs. McDonald,* and *Mr. McDougald.*

A study of programming, with special emphasis on public service and the social aspects of radio and television. An examination of Peabody entries and winners.

583. Radio-Television Performance. Prerequisites: Journalism 1 and 580. 371, or 372 (one of last three). Class will be limited to ten carefully chosen students definitely interested in radio-television as a career. *Mr. Franklin Butler* and *Mr. McDougald.*

A laboratory course wherein the student gets actual experience, under faculty supervision, in various aspects of broadcasting and telecasting. On-the-job experience will be supplemented by seminars and regular conferences with instructors.

584. Radio-Television Advertising. Prerequisite: Journalism 1 or 350. *Mr. Franklin Butler* and *Mr. McDougald.*
Radio and television as advertising media. Preparation of scripts and various types of commercial programs.

585. Television. *Mr. Franklin Butler* and *Mr. McDougald.*
An introductory course concerned with the history, problems, and techniques of television. Theoretical instruction is supplemented by laboratory observation and work in nearby television stations.

GRADUATE COURSES

For all undergraduate journalism courses in the 400 and 500 series, listed in the preceding section, there are graduate courses under corresponding numbers in the 600-700 series. For example, Journalism 456, is offered on the graduate level as Journalism 656. In addition to these 600-700 series courses, the following exclusively graduate courses are offered:

807-808. Advertising. 10 hours. *Mr. Drewry.*
Special work based on Journalism 457.

830. Research in Journalism. Prerequisite: 30 or more credit hours in journalism at the senior or graduate level. Open only to graduate students in journalism. *Mr. Tyus Butler, Mr. Drewry,* and *Mr. Hippchen.*
Individual research in journalism. Permission of the instructor required.

HISTORY, NAME AND ACCREDITATION

Instruction in journalism at the University of Georgia dates back to 1915 when a School of Journalism was authorized by the Board of Trustees. In 1921 the School was named for the illustrious editor, orator, and statesman, Henry W. Grady, an alumnus of the University.

The Grady School is on the approved list of the Association for Education in Journalism, and for some years has been a member of the American Association of Schools and Departments of Journalism, the national accrediting organization whose membership is limited to those schools which have met certain requirements as to curriculum, faculty, and equipment.

SPECIAL LECTURERS*

Floyd C. Ackerman, Oil Industrial Information Committee, American Petroleum Institute, New York.

Burke Dowling Adams, Burke Dowling Adams, Inc., Atlanta.

Leo Aikman, Editorial Associate, *Atlanta Constitution.*

Elmer M. Applegit, Coordinator of Publications, Socony-Vacuum Oil Company, New York.

Robert T. Bartlet, Member, Federal Communications Commission, Washington, D. C.

Edgar S. Bayol, Press Counsel, Coca-Cola Company, New York.

Morgan Beatty, N.B.C. Commentator, Washington, D. C.

Walter W. Belson, Director of Public Relations, American Trucking Association, Inc., Washington, D. C.

James A. Bridges, Newscaster and Announcer, WSB, Atlanta.

Russell Brines, Former Chief, Associated Press Bureau, Tokyo, Japan.

William H. Burson, Executive Aide to the Governor, Atlanta.

Robert J. Burton, Attorney and Vice-President, Broadcast Music, Inc., New York.

Mildred Collins, Director of Radio and Television Activities, Morningside Productions, New York.

*This is a partial list of those heard during the 1953-54 school year. A similar group is heard each session.

Victor C. Diehm, President and General Manager, WMAZ, Hazelton, Pennsylvania.

Thomas Dozier, Foreign Correspondent, *Time* Magazine, Madrid, Spain.

Roscoe Drummond, Washington Correspondent, *New York Herald Tribune.*

John Edwards, Washington Correspondent, American Broadcasting Company.

Louis Eidt, Business Manager, *Ledger-Enquirer* Newspapers, Columbus.

Charles W. Ferguson, Senior Editor, *The Reader's Digest*, Pleasantville, New York.

Roger Fox, Employee Publication Service, Hill and Knowlton, Inc., New York.

Eddy Gilmore, Foreign Correspondent, Associated Press, recently returned from Moscow.

Ralph W. Hardy, Vice-President, National Association of Radio and Television Broadcasters, Washington, D. C.

Frank A. Hooper, Judge, Northern District, U. S. Federal Court, Atlanta.

Allan Jackson, C.B.S. Commentator, New York.

Louis G. Johnson, Business Manager, Atlanta Newspapers, Inc.

Willis Johnson, Jr., Editor, *Southern Banker*, and Associate Publisher, *American Bottler* and *Guide*, Atlanta.

Sylvan Meyer, Managing Editor, *Gainesville Times*, and Chairman, Freedom of Information Committees of Georgia Press Association and Associated Press Managing Editors of Georgia.

V. M. Newton, Jr., Managing Editor, *Tampa* (Fla.) *Tribune*, and Chairman of Sigma Delta Chi Freedom of Information Committee.

Fred A. Palmer, Radio-TV Consultant, Worthington, Ohio.

Burton N. Pollard, Graphic Arts Representative, Ansco, Inc., Atlanta.

William I. Ray, Jr., Managing Editor, *Atlanta Journal.*

Fritz Schwaemmle, Director of Group Presentations, Delta-C & S Air Lines, Atlanta.

Edward L. Sellers, Southern Representative, *Broadcasting-Telecasting Magazine*, Washington, D. C.

Todd Storz, Vice President and General Manager, KOWH, Omaha, Nebraska; WHB, Kansas City; and WTIX, New Orleans.

Perrin Stryker, Associate Editor, *Fortune* Magazine, New York.

Basil L. ("Stuffy") Walters, Executive Editor, Knight Newspapers, Inc., Chicago, and President, American Society of Newspaper Editors.

Cranston Williams, General Manager, American Newspaper Publishers Association, New York.

Rosalind James Williams, Advertising Manager, Davison's, Atlanta.

THE SCHOOL OF HOME ECONOMICS

Mary Speirs, A.B., M.A., Ph.D., *Dean*

Irwin Vincent Sperry, A.B., M.Ed., Ed.D., *Assistant Dean in Instruction*

GENERAL INFORMATION

HISTORY AND PURPOSE

The School of Home Economics originated as the Division of Home Economics of the State College of Agriculture in 1918 and offered the first undergraduate work open to women in the University of Georgia. The earliest curriculum marked the first opportunity for women to secure the baccalaureate degree from any state supported institution in Georgia. The School of Home Economics was established in 1933 when the Household Arts Department of the State Teachers College was merged with the Division of Home Economics of the Georgia State College of Agriculture.

The School of Home Economics takes as its major objectives the preparation of students for satisfactory and effective family life and training for professional careers. The first is achieved by means of a well-rounded program of general, scientific, and technical education, and the second through a variety of home economics curricula. Since a high percentage of all home economics graduates ultimately marry and go into homes of their own, it is important that the basic curriculum prepare them for homemaking. The student who chooses to enter home economics for vocational preparation will find in this field an interesting choice of professional opportunities.

Specialization in major concentration begins in the junior year. Students transferring from other institutions should enter the University not later than the beginning of the junior year, since schedule conflicts may prevent securing junior and senior technical subjects in the same year even though prerequisites have been completed. Limited registration in certain courses frequently makes them available only to seniors.

Graduates of the School have filled positions as home economics teachers both in high schools and colleges, home demonstration agents, workers in community agencies, hospital dietitians, demonstrators for commercial organizations, department store buyers, personnel and public relations workers, nursery school teachers, and child welfare workers.

The School of Home Economics also offers a wide variety of more general subject matter for both men and women from other schools in the University who are interested in home and family education as well as in certain technical phases of home economics.

FACILITIES

Erected in 1932, Dawson Hall is located on South Campus. It is within walking distance of the North Campus and the business center of the city.

Dawson Hall is a three-story structure containing modern and fully equipped teaching laboratories and classrooms for equipment, foods, nutrition, textiles, clothing, home nursing, and home furnishing, as well as research laboratories. The building was remodeled in 1948-49 to include the most recent developments in home economics. In close proximity to Dawson Hall are four girls' dormitories; Soule Hall, Mary Lyndon, Rutherford Hall and Myers Hall; the Physical Education Building for Women; three home management houses; a Family Life Center; the nursery school; and the South Campus Library.

In addition to the administrative and faculty offices, Dawson Hall provides a student and faculty lounge and an auditorium for special programs, assem-

blies, moving picture showings, and club meetings. It also provides a reading room for the Homecon club and the Phi Upsilon Omicron room. "The Dawson Kettle," which serves a regular noon-day meal as well as luncheons and dinners for special groups, is used as a laboratory for catering and other food service courses.

The School of Home Economics maintains, in cooperation with the Department of Psychology, a nursery school as a laboratory for courses in child development. The Department of Psychology collaborates in teaching, gives psychological tests, and offers a consultant service to parents. The nursery school is housed in a separate building conveniently located and is equipped with reference to needs of the pre-school child and for observation and participation by students and educational and social welfare leaders. Adjacent to the nursery school a Family Life Center is provided for students who are working with families. In this building an infant center provides an opportunity for students to observe babies. Marital and pre-marital counselling services are offered to students and others as part of the program of the Family Life Center.

The three home management houses are modernly equipped. A quarter's residence in one of these is required of all students. The furnishing and decoration of the houses give teaching material for home furnishing courses. Each house has a resident director. Students living in a small group thus have opportunity to make practical application of the sciences and arts of home economics to family life.

The institution management courses are taught in the college dining halls under the direction of the dietitian in charge. Catering for large groups is done in the main dining hall.

The household equipment laboratory is located in Dawson Hall. Through cooperation of manufacturers and distributors, appliances are placed in this laboratory on consignment basis, thus making it possible to keep the equipment up to date. Home economics students use this laboratory in studying care of the home and the operation and efficiency of equipment.

STUDENT ACTIVITIES

Home economics students are eligible to participate in all general University activities. Special activities in the School of Home Economics are carried on by the Homecon club whose semi-monthly meetings are attended by majors in the School. The national honorary home economics sorority on the campus is Phi Upsilon Omicron, in which membership is based on scholarship, extra-curricula activities, and professional attitude. A student-faculty committee is representative of student groups within the school and serves in an advisory capacity on matters pertaining to home economics.

SCHOLARSHIPS AND AWARDS

A few scholarships and awards are open primarily to Home Economics students. For data on additional scholarships and awards, see the General Catalogue for information.

The Borden Award is made to the home economics senior who received the highest average grade of any student in the School of Home Economics during the three quarters of her junior year at the University. The award is $300.

The Danforth Fellowship provides a month's summer program for the home economics senior who holds an outstanding record of scholarship and school leadership. Two weeks at Camp Miniwanca and two weeks in St. Louis under the supervision of the Danforth staff make up the month's program. The Danforth Fellowship for freshmen is open to the outstanding home economics freshman girl both in scholarship and activities and offers two weeks of camp at Miniwanca during the summer between the freshman and sophomore years.

Kroger scholarships are awarded to high school seniors entering the School of Home Economics at the University who have high scholarship ratings and qualities of leadership. Two of these awards are open to entering home economics students each year. The scholarship is for $200 and applications for the coming year should be in by June 1.

Four Sears-Roebuck scholarships are available each year to freshmen and sophomore home economics students. Each scholarship is for $200.

A Georgia Dietetics Association scholarship of $150 is available to a major in dietetics or institution management to help finance the internship year after graduation.

The James Coffee Harris Award is given annually to a Junior for proficiency in Home Economics and English. This award is a bequest of the late Agnes Ellen Harris who was Dean of Home Economics at the University of Alabama.

GRADUATE STUDY

The School of Home Economics offers graduate study in several phases of work that will lead toward the Master of Science degree or the Master of Home Economics degree. For further information on advanced study see the bulletin of the Graduate School.

DEGREE REQUIREMENTS

A total of 185 quarter hours exclusive of Physical Education is required for the Bachelor of Science in Home Economics degree. Physical Education 1 and 2 are required of all freshmen and sophomores, but may be waived for transfer students entering the junior class with full standing. Students must meet the general University scholastic requirements for graduation, and, in addition, must make a minimum grade of "C" in all courses in the major concentration. Mathematics 99 is required of students who make a score of less than 20 on the Mathematics Placement Tests.

Junior and senior schedules may vary from 45 to 48 hours with approval of the major professor and Dean of the School.

Freshman and Sophomore Requirements

	Hours
Art 30 or 20	5
Art or Music elective or Art 30	3-5
English 2 x-y	10
English 22 x-y	10
Science (Select from Item 2 below)	10-15
Social Science (Select from Item 3 below)	15
Home Economics 1	3
Home Economics 5	5
Home Economics 20	5
Home Economics 75	5
Home Economics 293	5
Home Economics 343 or 43	5-3
Speech 3	3
Physical Education	10

Junior and Senior Core Requirements

General Electives (See major concentration or select from Item 5 below)	5
Science (Select from Item 2 below)	5
Social Science	5
Home Economics 222, 223, or 224	5
Home Economics 293	5
Home Economics 306 or 350	5

Home Economics 351 or 358 5
Home Economics 368 and 369 6
Home Economics 390 or 490 3-5

Note: Freshman and sophomore requirements for all Home Economics students except those majoring in Home Economics and Art or in Clothing and Textiles, include Art 30 and Art or Music elective and 15 hours of Science. Students majoring in Home Economics and Art will take Art 20, 30 and 40 in sequence and 10 hours of Science. The remaining Science is included in the Junior and Senior Requirements for these students. Clothing and Textiles majors will take Art 20, 30 and 40 or 111.

See major concentrations for total requirements of Junior and Senior years.

DETAIL OF TOTAL REQUIREMENTS

Hours

1. English 2 x-y, Grammar and American Literature 10
   English 22 x-y, Survey of European Literature 10
2. Science 20

   For all majors at least ten of the hours must be taken in one subject area: Biological Science, Chemical Science, Physical Science.

   Specific sciences needed for the various majors are as follows:

   Major in Clothing and Textiles Chemistry 21 and 260

   Major in Dietetics and Institution Management: Chemistry 21, 22, 260; Human Biology 1

   Major in Home Economics Education: Bacteriology 350; Chemistry 21 and 260; Human Biology 1

   Major in Experimental Foods: Chemistry 21 and 260; Human Biology 1; Bacteriology 350

   Major in Family Development: Human Biology 1

   Major in Home Demonstration: Bacteriology 350, Human iBology 1, Chemistry 21 and 260

   Major in Housing and Management: Physics 20, Human Biology 1

   Major in Nutrition: Chemistry 21, 22, and 269, Physics 20

3. Social Science 20

   Select courses from at least two of the following: Anthropology, Economics, Geography, History, Philosophy, Political Science, Psychology, Sociology.

   Specific courses in social science needed for certain curricula should be selected as follows:

   Major in Clothing and Textiles: Economics 5x, Psychology 1

   Major in Dietetics and Institution Management: Economics 5x, Psychology 1, Sociology or an additional Psychology

   Major in Home Economics Education: Economics 5x, Psychology 1, Sociology 5 or Social Science 4, and Political Science 1

   Major in Experimental Foods: Economics 5x, Psychology 1

   Major in Family Development: Psychology 1, Sociology 5

   Major in Home Demonstration: Economics 5x, Psychology 1, Sociology 431

   Major in Housing: Economics 5x, Psychology 1, Sociology 5

4. Fine Arts 8-10

   Art 30 and one course in Music, Art, Visual Arts, or Crafts are to be chosen.

   Major in Clothing and Textiles: Art 20, 30, and 40 or 111 (preferably in sequence) and one additional Art elective.

Major in Home Economics and Art: Art 20, 30 and 40 (in sequence)

5. General Electives 20

Select courses from the above Items 1, 2, 3, and 4 or other approved areas. If a student anticipates pursuing a Master of Science program all general electives should be taken from the above four items, language or mathematics.

Refer to major concentrations for specific courses needed.

6. Home Economics Core Requirements 55

Home Economics 1	Home Economics 222, 223, or 224
Home Economics 5	Home Economics 343 or 43
Home Economics 20	Home Economics 306 or 350
Home Economics 75	Home Economics 351 or 358
Home Economics 293	Home Economics 368 and 369
	Home Economics 390 or 490

7. Major Concentration and Free Electives 40

At least thirty hours should be selected to meet requirements of the major concentration.

8. Physical Education 10

Total Requirements 195

MAJOR CONCENTRATION

Upon completion of freshman and sophomore requirements each student will, with approval of the Dean of the School, select a major concentration. This selection should conform to one of the plans indicated, and must include forty quarter hours in home economics courses numbered 200 or above. Minor changes in programs may be made uopn recommendation of the major professor with approval of the Dean.

MAJOR IN CLOTHING AND TEXTILES

This major offers training to the future homemaker for artistic and intelligent selection and care of clothing and household fabrics for the family. It gives preliminary training which may lead to commercial work; to clothing or textile designing; to becoming a clothing or textile specialist, stylist, consumer consultant, buyer; or to editorial writing for women's pages of newspapers or magazines.

Junior and Senior Requirements

	Hours
Home Economics 223	3
Home Economics 224	5
Home Economics 293	5
Home Economics 306 or 350	5
Home Economics 321	5
Home Economics 351 or 358	5
Home Economics 360 or 564	5
Home Economics 363 or 463	5
Home Economics 368, 369	6
Home Economics 561	5
Home Economics 562	5
Economics 360	5
Business Administration Elective*	5
Home Economics 490 or 390	3-5
Art* Electives	10
Science (See Total Requirements)	5-10
Electives	10
	94

*Subject to approval of major professor.

Suggested Electives: Journalism 368; Art 121, 150, 151, 208, 210, 241, 250, 251, 252, 255, 256; Home Economics 311 and 312; Sociology 5, 360 or 427; Business Administration 369 or 462.

MAJOR IN DIETETICS

This major meets the requirements of the American Dietetics Association and gives preliminary training for the dietitian. It prepares the student for administrative, staff, and therapeutic diatetics as well as for the teaching of dietetics and for the graduate year in hospital diatetics.

Junior and Senior Requirements

	Hours
Home Economics 222	5
Home Economics 293	5
Home Economics 306	5
Home Economics 351	5
Home Economics 354	5
Home Economics 390 or 490	3-5
Home Economics 368, 369	6
Home Economics 372	5
Home Economics 374	5
Home Economics 452 or 353	5
Home Economics 453	5
Bacteriology 350	5
Business Administration 6x	5
Chemistry 451	5
Education 304	5
Science (See Total Requirements)	5
Electives	15-13
	94

Recommended electives are Home Economics 325, 344, 355, 357, 359, 373, 450, 472; Journalism 368; and Landscape Architecture 301. Education 336 may be substituted for Education 304.

MAJOR IN HOME ECONOMICS EDUCATION

The major in Home Economics Education is offered jointly by the School of Home Economics and the College of Education. It fulfills the requirements for teaching in both vocational and non-vocational homemaking departments of Georgia high schools. The graduate in this program is qualified to receive a four year professional certificate. See College of Education for description of education courses.

Junior and Senior Requirements

	Hours
Home Economics 222, or 224	5
Home Economics 293	5
Home Economics 306	5
Home Economics 321	5
Home Economics 344	3
Home Economics 351	5
Home Economics 357 or 377	3
Home Economics 368, 369	6
Home Economics 390	3
Home Economics 490	5
Education 304, 335.2, 336.2	15
Education 346.2, 347.2, 348.2	15
Education 349	5
Science (See Total Requirements)	5
Electives	9
	94

Suggested Electives: Home Economics 357, 359, 370, 377, 461; Art 255; Dairy 383; Food Technology 363 or 409; Horticulture 365, 366; Industrial Arts 134 or 332; Journalism 368; Landscape Architecture 313; Poultry 80; Psychology 356; Physical Education 18, 385 or 387; Sociology 427.

MAJOR IN EXPERIMENTAL FOODS

This major offers training for students interested in educational, experimental, and promotional work in commercial fields, such as home service work, commercial food demonstration, or testing laboratories. Students may confer with adviser in the selection of a sequence of electives to meet individual professional interests.

Junior and Senior Requirements

	Hours
Home Economics 222	5
Home Economics 293	5
Home Economics 306	5
Home Economics 351	5
Home Economics 357	3
Home Economics 368, 369	6
Home Economics 390 or 490	3-5
Home Economics 452 or 353	5
Home Economics 546 or 547	5
Home Economics 550	5
Home Economics 554	5
Bacteriology 350	5
Education Elective	5
Public Speaking or Journalism	5
Science (See Total Requirements)	5
Electives	20
	94

Suggested Electives: Art 208, Chemistry 22, 451, Mathematics 20, Food Technology 221, Geography 355, Journalism 350.

MAJOR IN FAMILY DEVELOPMENT

Preparation for work with young children through public and private nursery schools, child serving agencies, and child clinics is provided in this major. This also provides professional preparation for work with agencies dealing with family adjustment or in positions requiring professional work in family life as a focus. Students interested in research or college teaching in this field will be prepared for advanced study with this major.

Junior and Senior Requirements

	Hours
Home Economics 222	5
Home Economics 293	5
Home Economics 306 or 350	5
Home Economics 351 or 358	5
Home Economics 368, 369	6
Home Economics 390	3
Home Economics 490	5
Home Economics 492	5
Electives in Family Development	20
Home Economics Electives	10
Science (Select from Total Requirements)	5
Electives	20
	94

In consultation with the adviser, students may select a sequence of courses

emphasizing nursery school work, child development, child welfare work, or family life in accordance with individual professional interests.

Electives in Family Development: Home Economics 344, 311b, 312b, 397, 493, 495, 496, 591, 594, 597.

MAJOR IN GENERAL HOME ECONOMICS

The general major is planned to give a broad cultural course and training for homemaking. There are fewer required courses and opportunity exists for many electives. Specialized interests may be followed through careful choice of electives.

Junior and Senior Requirements

	Hours
Home Economics 222	5
Home Economics 293	5
Home Economics 306 or 350	5
Home Economics 321	5
Home Economics 344	3
Home Economics 351 or 358	5
Home Economics 368, 369	6
Home Economics 390	3
Home Economics 490	5
Food Elective	5
Home Economics elective	8
Science (Select from Total Requirements)	5
Electives	34
	94

General majors must select at least 15 elective hours in one field beyond requirements. Preparation for the following occupations is possible by electing necessary courses during the junior and senior years of the General Home Economics major.

A. School Lunch Room Management: Requires Home Economics 354, 359, 353 or 455, 374, 372; Education 304; Bacteriology 350.

B. Public Health Nutrition Work: Requires Bacteriology 350, and Human Biology 2; Sociology 5 or 315; Home Economics 357, 376, 455, 557; Journalism 453, 359, 550 and Bacteriology 351 or 402.

C. Consumer Service: Requires an approved selection of 20 additional hours in chosen field of Home Economics and at least ten hours from the following courses: Agricultural Economics 470; Business Administration 360, 312; Economics 5x; Sociology 200; Education elective; Journalism 368.

D. Airline Stewardess: Requires Business Administration 324, 329, 330, 331, 332, and Geography 101.

MAJOR IN HOME ECONOMICS AND ART

The major in Home Economics and Art is offered jointly by the School of Home Economics and the Department of Art. It is designed to provide education for homemaking along with an opportunity for specialization in art. The concentration will be of particular interest to those who wish to study Interior Design, Crafts, Ceramics, Drawing and Painting, Commercial Art and Art History.

Junior and Senior Requirements

	Hours
Home Economics 222, 223, or 224	3-5
Home Economics 293	5
Home Economics 306 or 350	5
Home Economics 321	5
Home Economics 351 or 358	5

Home Economics 368, 369	6
Home Economics 390	3
Home Economics 490	5
Home Economics electives	16-18
Art electives	10-20
Science (Select from Total Requirements)	10
Electives	9-19
	94

The art electives may be selected with approval of adviser from the areas of Interior Design, Crafts, Ceramics, Drawing and Painting, Commercial Art, and Art History.

MAJOR IN HOME ECONOMICS JOURNALISM

The major in Home Economics Journalism is offered jointly by the School of Home Economics and the School of Journalism. It is designed to prepare students for journalistic work related to homemaking and may lead to employment with newspapers, magazines, radio, television or other aspects of the growing communications field.

Junior and Senior Requirements

	Hours
Home Economics 222	5
Home Economics 293	5
Home Economics 306 or 350	5
Home Economics 321	5
Home Economics 351 or 358	5
Home Economics 368, 369	6
Home Economics 390	3
Home Economics 490	5
Home Economics electives	10
Science (Select from Total Requirements)	5
Journalism electives	31
Electives	9
	94

Journalism courses normally include Journalism 1-350, 456, 557, 558 (3 hours) and 559 (3 hours), 580 or such courses as are approved by the deans of the two Schools involved.

MAJOR IN HOME DEMONSTRATION

This major provides for the training of extension home demonstration agents and home management supervisors in the farmers' home program, and preliminary training for district and state workers. Special field experience is provided under supervision. Courses in agriculture are required.

Junior and Senior Requirements

	Hours
Home Economics 222	5
Home Economics 293	5
Home Economics 306	5
Home Economics 321	5
Home Economics 344	3
Home Economics 351	5
Home Economics 357	3
Home Economics 368, 369	6
Home Economics 390	3
Home Economics 311a-312a	10
Home Economics 413	5

Home Economics 480	5
Home Economics 490	5
Agricultural electives	15
Science (Select from Total Requirements)	5
Electives	14
	94

Suggested Electives in Agriculture: Dairy 383; Food Processing 409; Horticulture 1; Poultry Husbandry 60, Landscape Architecture 313.

Suggested Electives: Speech 50 or Journalism 368-580; Home Economics 350, 354, 355, 370, 377, 546.

MAJOR IN HOUSING AND MANAGEMENT

This major provides training for management of multiple unit houses, advisers in Federal housing projects, and assistants to architects who design homes.

Junior and Senior Requirements

	Hours
Home Economics 222	5
Home Economics 293	5
Home Economics 344	3
Home Economics 350 or 306	5
Home Economics 358 or 351	5
Home Economics 368, 369	6
Home Economics 376	3
Home Economics 377	3
Home Economics 390	3
Home Economics 546, 547, 463 or 475	10
Home Economics 446, 447, 463 or 475	10
Home Economics 480	5
Home Economics 490	5
Science (Select from Total Requirements)	5
Electives	31
	94

Electives to be approved by major professor.

Required courses for this major should be scheduled before other electives are chosen. Recommended electives are Agricultural Enginering 4, 5; Agricultural Economics 370; Art 111, 290; Gography 355; Journalism 580 or 368; Landscape Architecture 55, 102, 313, 353; Sociology 315; Home Economics 570.

MAJOR IN INSTITUTION MANAGEMENT

This major meets the requirements of the American Dietetic Association, gives preliminary training in institution management and includes work in institutional equipment, quantity cookery, catering, and accounting. It prepares the student for lunch room, tea room, and college dining hall management, and for the graduate year in administrative dietetics.

Junior and Senior Requirements

	Hours
Home Economics 222	5
Home Economics 293	5
Home Economics 306	5
Home Economics 351	5
Home Economics 354	5
Home Economics 390 or 490	3-5
Home Economics 353 or 452	5
*Home Economics 359 or 373	5
Home Economics 368, 369	6

Home Economics 372	5
Home Economics 374	5
Bacteriology 350	5
Business Administration 6x	5
Chemistry 451	5
Education 304	5
Science (See Total Requirements)	5
Electives	15-13
	94

*Home Economics 359 prepares the student for school lunch work; Home Economics 373 for work in tearoom, hotel dining room, restaurant, or club.

Recommended electives: Home Economics 325, 344, 355, 357, 359, 373, 550, 453, 572; Business Administration 370.

MAJOR IN NUTRITION

This major provides a background for various types of nutrition work such as research, teaching, or extension service as a nutrition specialist. It prepares the student for graduate work in nutrition or for a research assistantship in a commercial organization or an educational institution.

Junior and Senior Requirements

	Hours
Home Economics 222	5
Home Economics 293	5
Home Economics 306	5
Home Economics 351	5
Home Economics 353	5
Home Economics 368, 369	6
Home Economics 390 or 490	3-5
Home Economics 452	5
Home Economics 458	5
Home Economics 550	5
Bacteriology 350	5
Chemistry 451 or Physiology	5
Education Elective	5
Public Speaking or Journalism	5
Electives	25-23

Suggested Electives: Animal Nutrition 402, Business Administration 370, Chemistry 23, Dairy 385, 388, French 101, 102, Food Technology 363, 409, German 101, 102, Home Economics 354, 355, 459, 372, 373, 554, 453, 456, Journalism 350, 368, 369, Math 101y, 110, 354, 356, Poultry Nutrition 375, and Speech 369.

COURSES OF INSTRUCTION

The University reserves the right to withdraw any course for which the registration is not sufficiently large, and to offer courses not listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated courses meet five hours a week and carry five hours credit.

1. Home Economics Orientation. 3 hours. *Miss Sheerer.*
A course offered for entering freshmen and transfer students to help them in personal development, analysis of interests and aptitudes, and vocational planning.

CLOTHING AND TEXTILES

20. Elementary Clothing. Two lectures and three double laboratory periods. *Miss Armstrong, Miss Knapp,* and *Miss Whitesell.*
Wardrobe planning and selection related to simple problems involving fundamental garment construction processes; care of clothing, including repair.

222. Elementary Textiles and Clothing for the Family. Three lectures and two laboratory periods. Prerequisite: Home Economics 20. *Miss Armstrong, Miss Knapp,* and *Miss Whitesell.*

Practical application of the study of elementary textiles to selection of fabrics and ready-to-wear clothing for the family; maintenance and storage of fabrics and garments, planning family wardrobe, construction of child's garment.

223. Clothing for the Family. 3 hours. Two lectures and one double laboratory period. Prerequisite: Home Economics 20. *Mrs. Blair* and *Miss Knapp.*

Planning the family wardrobe; problems involved in the selection, use, maintenance, and storage of clothing for the family; construction of a child's garment.

224. Textiles. Two lectures and three double laboratory periods. Prerequisite: Home Economics 20 and Chemistry 21. *Miss Armstrong* and *Miss Whitesell.*

A study of textile fibers, fabric construction and finishes; care of textiles used for clothing and in the home. Identification of fibers through chemical, physical and microscopical testing.

321. Clothing Selection and Construction. Two lectures and three double laboratory periods. Prerequisites: Home Economics 20, 222 or 224, and Art 30. *Miss Armstrong* and *Mrs. Blair.*

Clothing selection based on consideration of personality, figure, and color types; cost; construction of garments in wool and in other fabrics; certain phases of trade and fashion.

325. Appropriate Dress and Personal Appearance. 3 hours. For non-Home Economics majors (men or women) or Home Economics majors whose curriculum does not require Home Economics 321. *Miss Armstrong* and *Mrs. Blair.*

Selection of clothing and accessories based on wardrobe and individual needs, including aesthetic, psychological, social and economic problems; analysis of personality, figure, and color types; appropriate dress; grooming.

360. Advanced Textiles. Two lectures and three double laboratory periods. Prerequisite: Home Economics 224 and Chemistry 260 or equivalent. *Miss Armstrong.*

Advanced study of selection and care of clothing and household textiles including chemical, physical, and microscopical characteristics of natural and man made fibers; new trends in fabric manufacture and finishes.

363. Costume Design. Two lectures and three double laboratory periods. Prerequisite: Home Economics 321, Art 20 and 111 or equivalent. With approval of the instructor, may be elected by students majoring in fields other than Home Economics. *Mrs. Blair.*

Application of principles and techniques of art and effective dressing to designing clothes for various personalities, figures, ages, and occasions; corrective dress; historic and current influences; development of originality and creative ability in this field.

463. Historic Costume. Prerequisite: Home Economics 321. With the consent of the instructor, may be elected by students of advanced standing who are not majoring in Home Economics. *Mrs. Blair.*

A study of clothing and certain related customs throughout the ages from ancient Egypt, Asia Minor, Crete, Greece, Rome, to early France and England, early and modern America; trade, political, religious, and other influences on dress.

561. Clothing and Textiles Economics. Prerequisite: Home Economics 224, 321 and Economics 5x. *Miss Whitesell.*

Consumer buymanship of clothing and household textiles; commodity studies with comparison and evaluation toward standardization; educational and promotional work; value of good human relationships in producing, distributing and using clothing; field trips.

562. Tailoring. Two lectures and three double laboratory periods. Prerequisite: Home Economics 222 or 224 and 321. *Miss Armstrong* and *Miss Whitesell.*

Tailoring and other expert techniques in construction; selection and alteration of ready-to-wear tailored garments.

564. Pattern Design and Draping. One lecture and four double laboratory periods. Prerequisite: Home Economics 321 and Art 111. *Mrs. Blair.*

Application of the principles of design and effective dressing to clothing problems

with emphasis on artistic effects in color, line, and texture; making and using a master pattern for various designs; designing through draping garments.

568. Retail Merchandise Information. Prerequisite: Home Economics 321 and Economics 360 or a similar course approved by the instructor. *Miss Armstrong.*

Designed for students interested in retailing. Principles of buymanship, selling, display, and advertising from standpoint of consumer, salesman and retailer; fabrics, ready to wear, accessories, home furnishings; identification, evaluation of serviceability, care of materials used.

865. Clothing Problems. Prerequisite: Home Economics 321 and one other approved senior division course. *Mrs. Blair.*

New trends in fabrics, finishes and construction of clothing. Individual problems based on needs of students according to phase of clothing work in which they are planning to enter or are in already.

867. Clothing and Textiles Research Methods. Prerequisite: Home Economics 321 or equivalent and one other senior division clothing and textiles course. *Miss Armstrong* and *Mrs. Blair.*

The philosophy of research and various methods which are applicable to clothing and textile studies; sufficient practice in each method to ensure understanding of its use and for interpreting research literature.

FAMILY DEVELOPMENT

293. (Sociology) Family Relations. *Miss Sheerer* and *Mr. Sperry.*

Designed to assist students in preparation for marriage and family living. Personal development and family living, planning for marriage, achieving a happy marriage.

344. Home Nursing. 3 hours. Two lectures and one laboratory period. *Mrs. Blair* and *the Staff.*

The principles and techniques of home care of the sick.

390. Family Fundamentals. 3 hours. Two lectures and two periods of supervised observation in the infant center. *Miss LaBoon, Miss Sheerer,* and *the Staff.*

A study of the young family and its early adjustments, particularly with relation to the preparation for and adjustment to children.

397. Creative Materials and Activities in the Home. Prerequisite: Art 30, and Home Economics 390 or equivalent. *Miss LaBoon.*

Functions of creative materials and activities in the home in developing a closer family unity; types of creative activities which can be carried on in the average home with minimum of special materials, equipment, and expenditure.

461. The Family. (See Sociology).

490. (Psychology) Development of the Young Child. Three lectures and four periods of supervised observation in the Nursery School. Prerequisite: Psychology 1 or a satisfactory substitute. *Miss Brooke, Miss Maxwell, Miss Young,* and *the Nursery School Staff.*

The physical, mental, emotional, and social development of the pre-school child; the environmental factors influencing the development of the young child and special reference to techniques and guidance.

492. Growth and Guidance of Children. Three lectures and four periods of supervised observation in the Nursery School and Infant Center. Prerequisite: Work in child development, child psychology, or closely related courses. *Miss Brooke, Mr. Sperry,* and *the Nursery School Staff.*

The guidance of young children as based upon a knowledge of their maturation in the pre-school years. Principles, techniques and facilities for guidance of young children with particular reference to the home.

493. Economic and Social Problems of the Family. Prerequisite: Consent of the instructor. *Miss Sheerer, Mr. Sperry* and *the Staff.*

The modern family; home life in changing social and economic order; special legislation affecting the family; relation of the members of the family to each other and to the community.

495. Contemporary Family Life. Prerequisite: Psychology 1, Home Economics 490 and one additional senior college course or consent of the instructor. *Miss Sheerer* and *Mr. Sperry.*

A study of the interpersonal relationships of family members, the forces impinging upon them today, and the changes that result in home and family living.

496. (Education) Parent Education. Prerequisite: Home Economics 293 and 490 or equivalent. *Miss Brooke* and *Mr. Sperry.*

Working philosophy for parent education; skills in procedure and techniques for working with parents. Opportunity for observation and participation with parent groups, parent conferences, and home visitations.

591. Creative Activities for the Pre-School Child. Prerequisite: Psychology 1, Home Economics 490 and one additional related senior division course. *Miss Brooke, Miss McPhaul,* and *the Nursery School Staff.*

Course covers selected types of creative activities for children of the pre-school years, including literature, art, music, nature study and other materials for young children. Practical experience with these in Nursery School.

594. Nursery School Laboratory Problems. Three lectures and supervised practice in the Nursery School. Prerequisite: Home Economics 490 or Psychology 490 and one additional senior college course. *Miss McPhaul* and *Nursery School Staff.*

Instruction, observation, and practice in the basic principles of group management of children from two through five years; guidance in selection of equipment and play materials and administration and organization of a nursery school.

597. Infant Development. *Miss Sheerer* and *Staff.*

Emotional, social, intellectual and physical development in infancy. Experience with infants in Infant Center and in selected home.

798-799. Internship in Nursery School Administration. Prerequisites: Home Economics 490, 492, and 494 or equivalent. *Miss Brooke, Miss Maxwell, Miss McPhaul.*

Instruction, observation, and directed experience in the various phases of Nursery School administration, including program, parent relations, physical plant, equipment, supplies, and finance. A research project in some phase of Nursery School administration is required.

890. Research in Family or Child Development. Prerequisite: Home Economics 490 and one additional approved senior division course. *Mr. Sperry* and *Miss Young.*

Survey of litearture in the field; techniques of research; critical evaluation of research studies; planning and developing projects; and research writing in the fields of family and child development.

892. Behavior Problems in Children. Prerequisite: Home Economics 490. *Miss Sheerer, Mr. Sperry,* and *Miss Young.*

The child's adjustment to his environment with a consideration of the cause, treatment, and prevention of behavior problems. Utilization of case materials. Research problems in the field will be carried out by the students.

893. Adjustment in Home and Family Relationships. Prerequisite: Home Economics 293 and one additional senior division course or consent of the instructor. *Miss Sheerer* and *Mr. Sperry.*

A study of the most important areas of adjustment in marriage and family relationships, factors contributing to such adjustment, development of techniques for adjusment, and facilities available. Case materials will be analyzed and interpreted.

894. Seminar in Child and Family Development. Prerequisite: Two senior division courses in Family Development or equivalent. *Miss Sheerer* and *Mr. Sperry.*

Survey of current literature on selected topics in Family and Child Development; discussion of current trends in the field; reports and discussion on selected topics; use of resource materials in the field.

FOODS AND NUTRITION

3. Diet and Physical Fitness. *Miss Mirone.*

The fundamental principles of nutrition and food preparation. For non-majors.

5. Family Meal Preparation and Serving. Two lectures and three two-hour laboratory periods. *Miss Goodman* and *Miss Rasmussen.*

Introductory course in food preparation based on the planning, preparation, and serving of nutritious and palatable meals for the family.

53. Diet Therapy for Nurses. 2 hours. One lecture and informal laboratory. *Miss Mirone* and *Miss Newton.*

A course planned to meet the special needs of nurses.

304. Nutrition Education for Teachers. Prerequisite: Senior college standing. *Miss Beall* and *Miss Moore.*

A study of the diet habits of Georgia school children and the relation of nutrition to health. Emphasis is placed on how teachers can enrich school and community programs and improve the health of school children through nutrition education.

306. Foods. Two lectures and three laboratory periods. Prerequisite: Home Economics 5, and Chemistry 260. *Miss Rasmussen.*

Principles of cookery through analysis of basic recipes; the application of principles in preparation of commonly used foods; evaluation of products. Practical examination required.

350. Meal Planning and Serving. Two lectures and three double laboratory periods. Prerequisite: Home Economics 5. *Miss Goodman* and *Staff.*

The planning, preparation, and serving of meals for the family and for special occasions. Selection of food and principles of cookery are emphasized.

351. Foundations of Nutrition. Two lectures and three double laboratory periods. Prerequisite: Chemistry 260 and Home Economics 306. *Miss Newton.* (Home Economics 306 may parallel this course.)

The requirement of different individuals for energy, protein, minerals, and vitamins; food as a source of daily requirements; and the relation of food and the state of nutrition of an individual to physical fitness.

353. Nutrition. Two lectures and three double laboratory periods. Prerequisite: Home Economics 306, 351, and Chemistry 451. *Miss Newton.*

The chemical and physical changes involved in the digestion and metabolism of foods. Nutritive value of foods; relative costs of foods; family dietary calculations.

354. Quantity Cookery. One lecture and four double laboratory periods. Prerequisite: Home Economics 306. *Mrs. Whitehead.*

A study of cookery methods applicable to the preparation of foods for institutional or quantity service. Provides for use of institutional equipment, experience in butcher shop, school lunchroom, large cafeteria, and the planning and serving of meals.

355. Catering. Informal laboratory, equivalent to two lectures and three double laboratory periods. Prerequisite: Home Economics 350 or 306. *Miss Goodman* and *Mrs. Whitehead.*

The planning, preparing, and serving of teas, luncheons, dinners and banquets for various groups at different price levels.

357. Food Demonstration. 3 hours. Three double laboratory periods. Prerequisite: Home Economics 306 or 350. *Miss Rasmussen.*

A continuation of Foods 306 or 350. Taught by student demonstrations which illustrate principles of cookery. Major emphasis on demonstration techniques.

358. Individual and Family Nutrition. Three lectures and two laboratory periods. Prerequisite: Home Economics 5. *Miss Newton.*

A study of nutrition needs of the family and its individuals. Includes a study of food cost in relation to nutritive value. Open to all students.

452. Advanced Nutrition. Three lectures and two double laboratory periods. Prerequisite: Home Economics 351 or equivalent. *Miss Mirone.*

Application of laboratory methods for evaluating nutritional status and nutritive value of foods. Urinalysis, hematology, blood chemistry, food analysis, vitamin analysis, microbiological and biological methods.

453. Nutrition in Disease. Prerequisite: Home Economics 353 or 452. *Miss Mirone* and *Miss Newton.*

The modification needed in the normal diet for the treatment of various diseases. Special emphasis is given to the study of digestive diseases, diabetes, diseases of the blood and to general malnutrition.

455. Nutrition in Infancy and Childhood. Prerequisite: Home Economics 350 and 358 or equivalents. *Miss Mirone* and *Miss Newton.*

Fundamental principles of nutrition during infancy and early childhood. Laboratory work in infant laboratory and nursery school.

458. Readings in Nutrition. Prerequisite: Home Economics 351 or consent of instructor. *Miss Mirone* and *Miss Newton.*

Recent developments and the present status of knowledge on selected topics from the field of nutrition. The course is designed especially for those who wish to bring their knowledge up to date.

550. Introduction to Experimental Cookery. Two lectures and two three-hour laboratory periods. Prerequisite: Home Economics 306, 351, or consent of instructor. *Mrs. Hood* and *the Staff.*

Experimental methods applied to the problems involved in food preparation. Egg cookery, jellies, fruits and vegetables, cereals and cereal products are given major emphasis.

554. Experimental Cookery. Two lectures and two three hour laboratory periods. Prerequisite: Home Economics 306, 351 and consent of instructor. *Mrs. Hood* and *the Staff.*

Application of experimental methods to the cookery of meats, fats, batters and doughs.

557. Field Work in Nutrition. Prerequisite: Home Economics 351 or consent of instructor. *Miss Newton.*

Opportunity is given for contacts with various types of nutrition work such as the agricultural extension program and well baby clinics.

850. Seminar in Foods and Nutrition. Prerequisite: Home Economics 306 and 550, or 353 and 452, or equivalent. *Mrs. Hood* and *Miss Mirone.*

Survey of current literature on selected topics in foods and nutrition. Organized to use classic studies as background material for each topic.

854. Special Topics in Foods and Nutrition. Prerequisite: One graduate course in foods and consent of the instructor. *Mrs. Hood* and *Miss Newton.*

Individual investigation of problems related to foods. Designed to develop initiative in the student in seeking and/or compiling information in a field of special interest.

856. Metabolism. Prerequisites: Home Economics 353 or 452 and one other senior division course. *Miss Mirone* and *Miss Newton.*

A study of the caloric value of foods by means of an oxy-calorimeter; the basal metabolism of individuals of different ages and under different conditions by use of the respiration calorimeter.

857. Introduction to Research in Foods and Nutrition. Prerequisite: Two graduate courses in foods or nutrition or consent of instructor. *Mrs. Hood* and *Miss Mirone.*

Individual investigation of selected problems in the major field.

858. Research in Foods and Nutrition. Prerequisite: Home Economics 857 or equivalent. *Miss Mirone* and *Mrs. Hood.*

The planning and conducting of an individual research problem under supervision.

HOUSING, EQUIPMENT AND HOME FURNISHINGS

43. Household Equipment. 3 hours. One lecture and two laboratory periods. Prerequisite: Physics 20. *Mrs. Walker.*

Application to home situations of the principles involved in the performance of major types of household equipment used in food preparation, laundering, cleaning, and home lighting.

75. Home Decoration and Furnishing. Prerequisite: Art 30. *Miss Callaway.*

A study of decorating and furnishing a home to meet the basic needs of family living.

343. Care of the House. Two lectures and three double laboratory periods. *Mrs. Walker.*

Designed to guide students in the use and evaluation of household equipment used in care of the house.

376. Housing. 3 hours. Prerequisite: Home Economics 75 or consent of the instructor. *Mrs. Walker.*

Present-day housing needs from the standpoint of health, safety, environment, finance, ownership; types of dwellings; minimum standards.

377. Practical Home Furnishings. 3 hours. Prerequisite: Home Economics 75. *Miss Callaway* and *Miss LaBoon.*

A course dealing with the refinishing of furniture and furnishings for the home. The content deals with woods and wood finishes used for furniture; upholstery techniques; making curtains, draperies, slipcovers.

475. Home Decorating and Furnishing. Three lectures and two double laboratory periods. Prerequisite: Home Economics 75, 376, 480 or equivalent; Art 111; or consent of instructor. *Miss Callaway.*

A study of decoration and furnishings in the past and present with an application to contemporary living.

480. Housing Developments. Prerequisite: Home Economics 75, 368-369 and a senior division course in social sciences or consent of the instructor. *Mrs. Walker.*

Development of modern housing as related to family welfare; to health, safety, delinquency, social progress. A survey of housing problems; development of legislation; policies and programs; social and economic trends.

546. Household Equipment Testing. Prerequisite: Physics 20 and Home Economics 43 or equivalent. *Mrs. Hood* and *Mrs. Walker.*

The operation, care and arrangement of equipment; the measurement and testing of factors governing the efficiency of different types of equipment.

547. Home Lighting and Refrigeration. Prerequisite: Home Economics 343 or Home Economics 43. *Mrs. Hood* and *Mrs. Walker.*

Application to home situations of recent developments in lighting and in refrigeration.

887. Research in Family Housing. Prerequisite: At least two senior division courses in housing or related field. *Mrs. Hood* and *Mrs. Walker.*

Application of experimental data as obtained from literature reviews and discussions to the solution of practical problems in family housing.

MANAGEMENT AND ECONOMICS

HOME MANAGEMENT

368. Home Management. 3 hours. Three lectures. Prerequisite: Home Economics 43, or equivalent, 306, 351. *Miss Callaway.*

A study of the managerial problems of the home and principles underlying their solution.

369. Home Management Residence. 3 hours. Informal laboratory consisting of full quarter's residence in a home management house. Must accompany Home Economics 368 in all cases where the curriculum requires residence. *Miss Callaway* and *the Staff.*

370. Food Selection and Buying. 3 hours. *Miss Rasmussen.*

A study of sources, comparative values, and storage of foods for home use.

570. Consumer Problems. Prerequisite: Home Economics 368-369. *Miss Callaway.*

Problems of the household buyer; intelligent selection of goods on modern market; standards of labeling as safeguards in buying; family income and problems of distribution.

INSTITUTION MANAGEMENT

359. School Lunchroom Management. Prerequisite: Home Economics 306 or 350, and 351 or 358. *Miss Goodman.*

A study of the management of school lunchrooms, including menu planning, purchasing, preparation and service of food, record keeping, personnel management and equipment. Emphasis is given to the relation of the lunchroom to the total school program.

372. Institution Management. Prerequisite: Home Economics 43 or 343. *Mrs. Whitehead.*

A study of the problems involved in the management and organization of public and private institutions as hospitals, school food departments, and commercial units; selection of materials and equipment; planning and placing equipment in food units.

373. Tearoom Management. Two lecture and three laboratory periods. Prerequisite: Home Economics 306 or 350. *Miss Goodman.*

Organization and management of a tearoom including catering for groups.

374. Institution Food Purchasing. *Mrs. Whitehead.*

A study of the market organization, distribution, sources, storage, grades and value of food products. Trips to local markets to study methods of handling and distribution.

572. Advanced Institution Management Practice. Two conference and two three-hour laboratory periods. Prerequisite: Home Economics 372, 354, and 374. *Mrs. Whitehead.*

Study of management and of cost control in the college cafeterias. Practice in management of the dining hall. Hours for conference and laboratory work to be arranged.

LABORATORY AND FIELD EXPERIENCE

311-312. Field Work in Home Economics. 5 to 10 hours. Prerequisite: Completion of at least two stipulated quarters of senior college work and consent of the instructor. *The Staff.*

Opportunities for professional experiences in chosen fields of study.

a. Apprenticeship in Home Demonstration work offered cooperatively by the School of Home Economics and the Agricultural Extension Service, includes class work and selected field experiences, observing and assisting County Home Demonstration Agents and evaluating objectives, methods and results.

b. Nursery School experience is provided through the University Nursery School for students who need to prepare for this type of teaching. Facilities of other Nursery Schools throughout the State are used during the quarter.

c. A cooperative undertaking between the School of Home Economics and selected business organizations in which the student has opportunity to participate in responsibilities of service and promotional programs of those organizations under the supervision of a staff member.

(For teaching apprenticeship see Education 346-347-348.)

413. (Agriculture) Agricultural Extension Organization and Procedures. Prerequisites: Two or more junior and senior required courses, B.S.H.E. degree. *The Staff.*

Philosophy, procedures, and practices of Extension Service work in agriculture and home economics; organization, administration, and financing; qualifications, duties, and responsibilities of Extension Service workers.

921. Problems in Home Economics. Prerequisite: Three graduate courses in Home Economics and consent of major professor. *The Staff.*

The course is designed to provide individual guidance in the development of a significant project related to the student's field of work. A written report of the problem or project will be required.

THE SCHOOL OF VETERINARY MEDICINE

THOMAS JOHN JONES, B.S.A., D.V.M., M.S.A., Ph.D., *Dean*

HISTORY

The University of Georgia first offered a degree course in veterinary medicine in September 1918, and graduated the first class in 1922. This course was abolished in June 1933, and no work in the field was offered until the present school was established in August 1946. Since its establishment the school has shown consistently favorable development. It became officially recognized as an accredited institution by the Council on Education of the American Veterinary Medical Association in May, 1950. The first class was graduated in June, 1950.

A new and modern building which houses all departments of the school was completed in March 1953. It is well designed and of ample size to serve all functions related to education and training in veterinary medicine. The most modern facilities are to be found in its classrooms and student laboratories, seminar rooms, library, administrative and departmental offices, auditorium, large and small animal clinics and hospitals, and elsewhere throughout the building. In addition, space is conveniently provided for considerable research study.

POLICIES

In November 1948 at the Southern Governor's meeting in Savannah, Georgia, a compact for regional education in veterinary medicine was ratified. Accordingly, the states of Maryland, Virginia, North Carolina and South Carolina are assigned by the Regional Council on Education to the University of Georgia, School of Veterinary Medicine. Approximately ten students who meet the qualifications from each of those states will be accepted for enrollment in veterinary medicine each September, while twenty qualified students will be accepted from the state of Georgia. This will give a class of 60 new students each year, making a total of 240 students in the school as a whole.

In order to gain admission to the School of Veterinary Medicine, applicants from the above-named states will apply as follows: Application blanks must be secured from the committee on veterinary student selection at the Land Grant Colleges in the respective states. Requests for such blanks should be made by Maryland applicants to Dr. James R. Sperry, University of Maryland, College Park, Maryland; by Virginia applicants to Dr. Paul Farrier, Registrar, Virginia Polytechnic Institute, Blacksburg, Virginia; by North Carolina applicants to Dr. Roy L. Lovvorn, Director of Instruction, College of Agriculture, Raleigh, North Carolina; by South Carolina applicants to Prof. J. R. Cook, Animal Husbandry Department, Clemson Agricultural College, Clemson, South Carolina; and by Georgia applicants to Mr. Walter Danner, Registrar, University of Georgia, Athens, Georgia.

All applicants are required to complete the pre-veterinary requirements by the end of the spring quarter or semester preceeding the fall that they wish to enter the School of Veterinary Medicine.

OPPORTUNITIES FOR VETERINARIANS

For the past several years there has been an increase in the demand for skilled veterinarians. There are numerous fields of service, all of which are expanding, open to graduates of approved schools of veterinary medicine. At present a well qualified veterinarian may enter any one of the following fields of endeavor:

PRIVATE PRACTICE. Although the vast majority of veterinarians in the

United States are in private practice, there are still many desirable locations for veterinarians who wish to practice the profession. The renewed interest in fur animal farming affords opportunities for diagnosis and control of fur-bearing animal diseases.

Governmental Service. The Agricultural Research Service, United States Department of Agriculture, is the largest single employer of veterinarians in this country. It provides many attractive opportunities under the protection of Civil Service in federal meat inspection, quarantine, control and eradication of animal diseases, and research in diseases of animals. Veterinarians are also employed in the Veterinary Public Health Section of the United States Public Health Service with Civil Service status.

Veterinary Corps of the U. S. Army and U. S. Air Force. Veterinary officers in the U. S. Army and U. S. Air Force are commissioned with the rank of first lieutenant up to and including colonel.

State Veterinarians. Most states have state veterinarians whose official duty is the regulation and control of preventable diseases in the state, with a corp of veterinarians under their supervision. County veterinarians have a similar work in a more restricted area.

Municipal Veterinarians. Many cities employ veterinarians to inspect abattoirs and butcher shops, and meat and dairy products and to serve on municipal boards of health.

Teachers in Agricultural and Veterinary Colleges. There is always a demand for well-trained men in these positions and they command good salaries.

Research and Investigation in Animal Diseases. At the state agricultural experiment stations veterinarians are employed who are fitted for original research in the broad field of animal disease.

Commercial Work. Veterinarians are employed by large commercial firms for research, promotional and sales work, and in the preparation of biological products (tuberculin, serums, vaccines, anti-toxins, etc.) for use in both human and veterinary medicine.

Stock Farm Managers. A number of veterinarians are serving as managers on stock farms, particularly in breeding districts.

Veterinarians for Zoos. As a result of the increased interest in wild animals, many zoological societies employ full time veterinarians to look after the health and sanitary conditions of their animals.

Artificial Breeding Societies. One of the newest places of employment for veterinarians is the program of artificial insemination, where they direct the work and assume responsibility for the health of the animals involved.

Poultry Industry. The ever-increasing economic importance of the poultry industry in this nation demands the services of the veterinary profession. Those services are concerned with a wide field of research study as well as the diagnosis and control of poultry diseases in general veterinary practice.

PRIZES, AWARDS AND HONORS

The Dean's Cup. This cup is awarded annually by the Dean to the member of the fourth year class who has shown the best over-all progress during his four years in the School of Veterinary Medicine.

The Upjohn Award. These awards are made annually by the Upjohn Company to two members of the fourth-year class. One is presented to the student showing greatest proficiency in large animal subjects an dthe other to the student most proficient in small animal subject matter. The recipients are selected by the clinical staff of the School of Veterinary Medicine.

Women's Auxiliary. This award of $25.00 is given by the Women's Auxiliary of the American Veterinary Medical Association to a fourth year student in the School of Veterinary Medicine. The recipient is selected by the faculty on the basis of significance in promoting the status of the veterinary school on the campus.

Southeastern Veterinarian Literature Award. (Student Publication of the Student Chapter of the A.V.M.A.) This is a quarterly award of $5.00 to be given to any student of the School of Veterinary Medicine, University of Georgia who submits the best article for publication in this magazine. Recipients are selected by the staff of the magazine.

Moss Essay Contest. The Moss Essay Contest is conducted by the American Animal Hospital Association and is open to students of all accredited veterinary schools in the United States. Participating contestants submit essays on professional ethics to be judged by a committee of the American Animal Hospital Association. First, second and third prizes are awarded to respective winners in each school submitting five or more essays. A grand prize, an all expense trip to the annual meeting of the American Animal Hospital Association, is awarded to the student writing the best of all essays submitted from all schools.

Other Awards by individuals, commercial firms, and organizations which are not annual awards are granted on the basis designated by the donor. Upon receipt of such an award, the student body is notified.

DEGREES WITH HONORS

The degree, Doctor of Veterinary Medicine is awarded with honors to candidates who achieve specified scholastic records. The honors and specified scholastic records are: cum laude for a grade average of 90.0 to 92.9; magna cum laude for an average of 93.0 or better; summa cum laude for a record with all grades A or A+.

GRADUATE WORK

Graduate courses in bacteriology leading to the degrees, Master of Science and Doctor of Philosophy, are offered to qualified veterinary graduates.

Students seeking admission to the Graduate School should apply to the Dean of the Graduate School, The University of Georgia. For more detailed information, write for, The Graduate School Bulletin, The University of Georgia.

ADMISSION REQUIREMENTS FOR PROFESSIONAL COURSE OF STUDY

In order to matriculate in the School of Veterinary Medicine, a student must present a minimum of 90 quarter hours credit (exclusive of two years of Military Service or Physical Education) from an acceptable college, with grades of C or better. The requirements must be completed by June before admission the following September.

The pre-veterinary curriculum should be made up as follows:

Biological Sciences.	At least 20 quarter hours
Botany	10 quarter hours
Zoology	10 quarter hours
English	At least 15 quarter hours
Physical Sciences.	At least 35 quarter hours
Chemistry	20 quarter hours (including Organic Chemistry)
Mathematics	10 quarter hours
Physics	5 quarter hours

The remainder should be taken from the fields of the Social Sciences, and Animal, Dairy, and Poultry Husbandry.

There are an exceedingly large number of applicants seeking admission. In general, those having the highest scholastic rating will be given preference. It is advisable, therefore, that the student, upon entering college, decide whether he would prefer to continue his education in the College of Agriculture or in the College of Arts and Sciences, so that he may continue

in a field other than veterinary medicine with a minimum loss of time, in the event that he is not admitted into the School of Veterinary Medicine.

All candidates for admission into the entering class in September each year will be required to take during the preceding May or June a veterinary medical aptitude test. The results of this test will become a part of the student's credentials for admittance into the School of Veterinary Medicine.

Applicants for admission to the School of Veterinary Medicine, University of Georgia, who are known to have been dismissed from another veterinary school for any reason, shall not be accepted. Any student who shall gain entrance to the School of Veterinary Medicine by misrepresentation of the facts shall be immediately dismissed.

ACADEMIC REGULATIONS

In addition to regulations governing the grading system of the University (see Academic Regulations in the General Catalogue), students in the School of Veterinary Medicine are subject to a grade-point proficiency evaluation established by the faculty and by student body representatives of the school. No student may be placed on scholastic probation more than two quarters during the professional course of study. If the second probation is not satisfied the student may be dismissed.

The interpretation and application of the grade-point system is invested in a scholarship committee composed of members elected by and from the faculty, and one representative each, elected by and from the first, second, third, and fourth year classes in the School of Veterinary Medicine.

HONOR CODE

The students in the School of Veterinary Medicine have drawn up and are working under a code of honor which covers the three specific areas of lying, cheating and stealing. This code is administered by student representatives from each class and faculty members are present at trials only in an advisory capacity. The aim of the code is to develop personal integrity and unquestionable honesty as well as the personal responsibilities that are so important in maintaining and improving the ethical standards of the veterinary profession.

FOUR YEAR PROFESSIONAL CURRICULUM

FIRST YEAR

Fall Quarter	Lec	Lab	Cr
301 Anatomy	2	12	6
321 Histology	2	4	4
350 Physiological Chemistry	4	3	5
360 Genetics	3	0	3
	11	19	18

Winter Quarter	Lec	Lab	Cr
302 Anatomy	2	12	6
322 Histology	2	4	4
351 Physiol. Chemistry	4	3	5
300 Veterinary Medicine	2	0	2
	10	19	17

Spring Quarter	Lec	Lab	Cr
303 Anatomy	2	12	6
380 Bacteriol.	3	6	5
406 Physiology	4	3	5
323 Histology	2	4	4
	11	25	20

SECOND YEAR

	Lec	Lab	Cr
407 Physiology	4	3	5
430 Pharmacol.	3	0	3
423 Microbriol.	3	6	5
425 Pathology	3	4	5
	13	13	18

	Lec	Lab	Cr
408 Physiology	3	6	5
431 Pharmacol.	3	0	3
424 Microbiol.	3	6	5
426 Pathology	3	4	5
	12	16	18

	Lec	Lab	Cr
410 Endocrinol.	3	0	3
432 Pharmacol.	3	3	4
448 Dairy Technology	2	4	4
405 Parasitol.	2	2	3
427 Pathology	3	4	5
	13	13	19

THIRD YEAR

	Lec	Lab	Cr
400 Physical Diagnosis	3	0	3
410 Small Animal Med.	3	0	3
420 Surgery	5	0	5
440 Toxicology	2	4	4
406 Parasitol.	3	4	5
	16	8	20

	Lec	Lab	Cr
402 Large Animal Med.	5	0	5
411 Small Animal Med.	3	0	3
421 Surgery	4	0	4
407 Parasitol.	3	4	5
461 Clinical Pathology	3	3	4
	18	7	21

	Lec	Lab	Cr
403 Large Animal Med.	5	0	5
424 Operative Surgery	2	6	3
403 Applied Anatomy	1	3	2
475 Poultry Diseases	5	0	5
465 Clinics	0	18	2
	13	27	17

SUMMER QUARTER

466. Clinics (Clinic Preceptorship—Required) 10 to 13 hours.

FOURTH YEAR

	Lec	Lab	Cr
480 Public Health	5	0	5
415 Obstetrics	5	3	6
480 Radiology	3	0	3
462 Clinic Conference	2	0	1
467 Clinics	0	23	3
	15	26	18*

	Lec	Lab	Cr
470 Infectious Disease	5	0	5
485 Food Hygiene	5	4	6
405 Deficiency Disease	3	0	3
485 Business & Ethics	2	0	2
463 Clinic Conference	2	0	1
468 Clinics	0	23	3
	17	27	20

	Lec	Lab	Cr
471 Infectious Disease	5	0	5
450 Nutrition	5	0	5
487 Jurisprudence	2	0	2
464 Clinic Conference	2	0	1
469 Clinics	0	23	3
	14	23	16*

*The student may add from 3 to 5 hours of electives in these quarters.

REQUIREMENTS FOR THE DEGREE—DOCTOR OF VETERINARY MEDICINE

Upon completion of the four year professional curriculum, including a satisfactory proficiency evaluation, and evidence of satisfactory performance in the required clinical courses, the student will be recommended by the Dean, through the Faculty, of the School of Veterinary Medicine for the degree of Doctor of Veterinary Medicine (D.V.M.).

DEPARTMENTS OF INSTRUCTION

The University reserves the right to withdraw any course for which the registration is not sufficient and to offer courses not here listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated all courses meet five times a week, and carry five hours credit.

ANATOMY AND HISTOLOGY

Head: Westerfield. Staff: Kemler, Mead.

301-302. Anatomy of the Horse. 12 hours. Two lectures and four three hour laboratory periods each quarter. *Mr. Kemler* and *Mr. Mead.*
Topographic and systematic anatomy of the horse.

303. Comparative Anatomy of the Domestic Animals. 6 hours. Two lectures and four three hour laboratory periods. *Mr. Kemler* and *Mr. Mead.*
Complete dissection and study of the ox, sheep, dog, pig, cat, and fowl and their comparison with the horse in both topographic and systematic relations.

321-322-323. Histology and Embryology of the Domestic Animals. 12 hours. Two lectures and two two-hour laboratory periods each quarter. *Mr. Westerfield.*
The development of the vertebrate from the origin of the germ cells through ferti-

lization, cleavage, germ layers, and organogenesis, with special attention to the fetal membranes, placenta, and teratology, and the microscopic structure of the various tissues and organs of the animal body correlated with gross anatomy.

403. Applied Comparative Anatomy. 2 hours. One lecture and three hours of laboratory. *Mr. Kemler* and *Mr. Mead.*

A special study of anatomy as related to diagnosis and surgery.

410. Anatomical Technique. 2 to 5 hours. Three hours of laboratory for each credit hour. Prerequisite: Anatomy 303 and 323 or their equivalent. Offered on demand. *The Staff.*

Instruction in the technique of preparation of animals for dissection as well as methods of preparation of material for microscopic study.

499 a-b-c. Special Problems. Hours arranged. May be taken more than one quarter. *The Staff.*

Conferences, library and laboratory work under the direction of staff members on special problems in anatomy embryology and histology.

HYGIENE

Head: Kleckner. Staff: Foster, Pate, Strong, VanEseltine.

200. Veterinary Hygiene. Prerequisites: Zoology 25, 26; Bacteriology 350. Offered to students in the College of Agriculture. *Mr. Strong.*

A survey course dealing with the common diseases of livestock in Georgia, with emphasis on prevention and control through better management and sanitation of the farm.

373. Poultry Hygiene. Prerequisite: Poultry Husbandry 60 and Bacteriology 350. Offered to students majoring in poultry husbandry and others that are qualified. *Mr. Pate.*

A study of the common infectious, parasitic and nutritional diseases of poultry; their cause, diagnosis, prevention and control.

380. Introductory Veterinary Microbiology. Three lectures and three double laboratory periods. Prerequisites: First year veterinary curriculum. Other qualified students by arrangement with the head of the department. *Mr. VanEseltine.*

Covers the fundamental principles and techniques of the science of microbiology.

423-424. Veterinary Microbiology. 10 hours. Three lectures and three double laboratory periods each quarter. Prerequisites: Second year veterinary curriculum. Other qualified students by arrangement with the head of the department. *Mr. Foster, Mr. Kleckner,* and *Mr. VanEseltine.*

Studies on the mechanisms of infection and host resistance and the properties of the important bacterial, mycotic and viral agents of disease in domestic animals and poultry.

448. Dairy Technology. 4 hours. Two lectures and two double laboratory periods. Prerequisite: Second year veterinary curriculum. *Mr. Bennett.*

A survey of the physical, chemical and biochemical properties of milk and dairy products. Laboratory procedures on pasteurization, quality and sanitary control of dairy products.

470-471. Infectious Diseases. 10 hours. Prerequisite: Fourth year standing in the School of Veterinary Medicine. *Mr. Mills.*

A study of the infectious and communicable diseases of animals, including regulatory measures governing their prevention and control; embracing also the history, etiology, transmission, symptoms, lesions, diagnosis and treatment of each disease.

475. Poultry Diseases. Prerequisite: Third year veterinary curriculum. *Mr. Kleckner.*

A study of the etiology, epidemiology, pathogenesis, diagnosis, prevention, control and treatment of infections, nutritional and parasitic diseases of poultry.

480. Veterinary Public Health. Prerequisite: Fourth year standing in the School of Veterinary Medicine. *Mr. Strong.*

A study of the sanitary, epidemiological and regulatory aspects of public health programs, particularly as human health is affected by diseases of animals transmissible to man; the veterinarian's role in local, state and federal public health organizations.

485. Food Hygiene. 6 hours. Five lectures and four hours of laboratory and field trips. Prerequisite: Fourth year standing in the School of Veterinary Medicine. *Mr. Strong.*

A survey of the municipal, state and federal regulatory measures governing transportation, slaughter, merchandising and disposal of meat, meat food products and poultry; the application of dairy hygiene and public health measures to the production, processing and distribution of clean, safe milk and dairy products.

499 a-b-c. Special Problems. Hours arranged. May be taken more than one quarter. *The Staff.*

Conferences, library and laboratory work, under the direction of members of the staff, on special problems in infectious diseases of domestic animals, veterinary hygiene or veterinary preventive medicine.

800. Seminar in Veterinary Hygiene. 1 hour credit per quarter. Maximum of 3 accumulated credits. Prerequisites: Undergraduate major in veterinary medicine or two approved senior division courses in bacteriology or biology. *Mr. Kleckner* and *Staff.*

Weekly meetings devoted to discussion of current literature dealing with various aspects of veterinary hygiene.

BACTERIOLOGY

Instruction in microbiology in the Department of Hygiene is coordinated with the curriculum of the Department of Bacteriology, College of Arts and Sciences. Members of the staff of the Department of Hygiene serve also on the staff of the Department of Bacteriology.

See General Catalogue, or bulletins of the College of Arts and Sciences and the Graduate School for additional staff and course listings in the Department of Bacteriology, and information on the graduate program in microbiology.

410. Immunology. Three lectures and three double laboratory periods. Prerequisites: Bacteriology 409 and Chemistry 451 or equivalent. Veterinary Building. *Mr. Foster.*

Mechanisms of infection and host resistance; principles and techniques of serology.

422. Pathogenic Bacteriology. Three lectures and two double laboratory periods. Prerequisites: Bacteriology 410. Veterinary Building. *Mr. Van-Eseltine.*

Studies on the morphological, cultural and physiological properties of pathogenic bacteria; their relation to health and disease is emphasized.

450. Virology. Three lectures and three double laboratory periods. Prerequisites: Bacteriology 410. Veterinary Building. *Mr. Kleckner* and *Staff.*

An introduction to the viruses and rickettsiae; principles and methodology.

816. Seminar in Microbiology. 1 hour per quarter. One hour per week maximum three quarters. Available to majors in bacteriology, zoology, plant sciences, agriculture, with two courses in bacteriology as prerequisite. Baldwin Hall.

Meetings for discussion of research and new developments in the field.

820. Advanced Veterinary Microbiology. Prerequisites: Bacteriology 423-424 or 422 and 450. Veterinary Building. *Mr. Kleckner* and *Staff.*

A detailed study of the animal pathogens and their relationship to diseases.

860. Physiology of Bacteria. Five double periods. Prerequisites: Bacteriology 350, 409; Chemistry 451 or equivalent. Baldwin Hall. *Mr. Goldschmidt* and *Staff.*

Survey of the physiology and metabolism of microorganisms.

900. Problems in Bacteriology. Maximum credit of 10 hours. Must be preceded by at least two graduate courses in bacteriology. *The Staff.*

This course allows students to pursue intensive study under the direction of staff members, on approved problems in medical, agricultural, marine and general microbiology.

MEDICINE AND SURGERY

Head: McLendon. Staff: Causey, Edens, Hoffman, Jones, Kreuz, Mackenzie, Mills, Milner, Morton, Patterson, Taul.

300. VETERINARY MEDICINE. 2 hours. Two lectures per week. *Mr. Jones* and *faculty, together with prominent graduate veterinarians.*
A survey of the scope, objectives, obligations and opportunities in the broad field of veterinary science.

400. PHYSICAL DIAGNOSIS. 3 hours. *Mr. Mackenzie* and *Mr. Morton.*
Through lectures, demonstrations and laboratory the student is acquainted with the methods and techniques employed in clinical examination, and physical diagnosis of diseases of domestic animals, including also the important aspects in the care and nursing of sick animals.

402-403. LARGE ANIMAL MEDICINE. 10 hours. *Mr. Morton.*
A study of the noninfectious diseases of farm animals.

405. DEFICIENCY DISEASES. 3 hours. *Mr. Jones.*
A study of diseases of nutritional origin in large and small animals with special emphasis on deficiency due to low mineral and vitamin content of naturally occurring feeds.

410-411. SMALL ANIMAL MEDICINE. 6 hours. *Mr. Mackenzie.*
The pathology, diagnosis and treatment of diseases of small animals.

415. OBSTETRICS. AND GENITAL DISEASES. 6 hours. Five lectures and one three hour laboratory period. *Mr. Mills.*
A study of the principles of veterinary obstetrics and diseases of breeding animals.

420-421. SURGERY. 9 hours. Five lectures first quarter and four in the second quarter. *Mr. Causey* and *Mr. Kreuz.*
A survey of general surgical pathology, therapeutics, wound infection, asepsis, antisepsis, anesthesia, and the fundamentals of operative technique. Including also a detailed study of special and regional surgery of both large and small animals.

424. OPERATIVE SURGERY. 3 hours. Two conferences and two three hour laboratory periods. *Mr. Causey* and *Mr. Kreuz.*
Surgical exercises cover instruction, demonstration and practice on preoperative preparation, anesthesia, operative techniques, and post-operative care of both large and small animals.

480. RADIOLOGY. 3 hours. *Mr. Mackenzie.*
The principles of radiology; darkroom, X-ray and fluoroscopic techniques; radiologic aspects of diseases and injuries in animals; an introduction to the therapeutic use of X-ray.

485. ETHICS AND BUSINESS. 2 hours. *Mr. Mackenzie.*
A study of the ethical obligations and business aspects of veterinary practice.

487. JURISPRUDENCE. 2 hours. *Mr. Milner.*
A survey of the laws and regulations governing veterinary medicine, including contracts, leases, liabilities, stockyard and transportation laws.

499 a-b-c. SPECIAL PROBLEMS. Hours arranged. May be taken more than one quarter. *The Staff.*
Literature survey, conferences and short term projects in medicine and/or surgery under staff direction.

THE VETERINARY CLINICS

Clinical instruction is given by the staffs of the Department of Medicine and Surgery, the Department of Pathology and Parasitology, and the Department of Hygiene. The sections of clinical instruction encompass a large animal clinic and hospital, ambulatory farm service, small animal clinic and hospital, necropsy laboratory, clinical diagnostic laboratory, poultry disease laboratory, and bacteriology and serology laboratory.

462-463-464. CLINICAL CONFERENCE. 1 hour credit each quarter.
Lectures, recitations, reports and discussions of clinical cases, supervised by the clinical staffs but with active participation by the students.

465. CLINICS. 2 hours—Third Year Spring Quarter. Daily during clinic hours. *The Staff.*
Working with fourth year students and under close supervision of the clinicians, each student, by observation and as a helper, is afforded the opportunity to obtain a varied experience in clinical medicine.

466. Clinic Preceptorship. 10-13 hours. Daily during clinic hours and on call at all times for a minimum of ten weeks during the summer between the third and fourth year.
Work performed in groups under the supervision of the staff.

467-468-469. Clinics. 9 hours. 3 hours per quarter—Fourth Year. Daily during clinic hours and on call at all times, under supervision of the staff.
Students work in groups, and on a rotation basis alternate every week between the various sections of clinical instruction. Under the close supervision of a clinician the student will diagnose, treat and manage the various cases presented to the clinic.

PATHOLOGY AND PARASITOLOGY

Head: Sikes. Staff: Bradley, Crimmons, Zweigert

450-406-407. Veterinary Parasitology. 13 hours. 405: Two lectures and one double laboratory period. 406 and 407: three lectures and two double laboratory periods each quarter. *Mr. Bradley.*
A study of the parasites of domestic animals, their economic importance in livestock production and public health. Included are studies on taxonomy, distribution, diagnosis, and control of parasitic helminths, protozoa, and insects. Specific therapeutic measures are also included, where available.

425. General Animal Pathology. Three lectures and two double periods of histopathological laboratory. *Mr. Crimmins.*
An introduction to pathology and the consideration of the phases of pathological processes including the reparative processes.

426. Systemic Animal Pathology. Three lectures and two double periods of histopathological laboratory. *Mr. Crimmins.*
The application of general pathological processes to various body systems with emphasis on their clinical manifestations. The gross and microscopic study of neoplasms.

427. Special Animal Pathology. Three lectures and two double periods of postmortem laboratory. *Mr. Crimmins.*
The pathology of specific infectious and nutritional diseases and instruction and practice in the proper postmortem techniques and evaluations.

461. Clinical Pathology. 4 hours. Three lectures and one three hour laboratory period. *Mr. Zweigert.*
The course is designed to instruct the student in the performance of hematological, cytological, bacteriological, serological, urological, parasitological and histopathological examinations as an aid in the diagnosis of animal diseases. Emphasis is placed on the correlation of results with fundamental changes in disease and clinical manifestations. Approved methods for preparing and submitting samples to the laboratory are considered.

499 a-b-c. Special Problems. Hours arranged. May be taken more than one quarter. *The Staff.*
Specialized work in mammalian pathology, clinical pathology and parasitology is available to students of veterinary medicine with senior standing. Includes conferences and supervised library and laboratory work.

PHYSIOLOGY AND PHARMACOLOGY

Head: Piercy. Staff: Knapp, Kornfeld

350. Physiological Chemistry. Four lectures and one three hour laboratory period. *Mr. McRorie.*
A survey of the fundamental biochemical processes which occur in the animal body.

351. Physiological Chemistry. Four lectures and one three hour laboratory period. *Mr. McRorie.*
A continuation of Physiological Chemistry 350 with advanced study of the chemistry of physiological processes.

360. Applied Animal Genetics. 3 hours. *Mr. Huston.*
A course dealing with the application of genetics to domestic animals and poultry, emphasizing the genetic influence on the susceptibility to disease and the occurrence of lethal factors.

406-407-408. Comparative Mammalian Physiology. 15 hours. 406-407: Four lectures or recitations and one three hour laboratory period each quarter. 408: Three lectures, three hours of seminar and one three hour laboratory period. *Mr. Piercy* and *Staff.*

A comparative study of mammalian physiology relating consecutively to the nervous system, muscles, body fluids, circulation, respiration, digestion, the urinary system, nutrition, body heat, endocrinology and reproduction.

410. Veterinary Endocrinology. 3 hours. *Mr. Kornfeld.*

A survey and study of endocrine functions.

430-431-432. Veterinary Pharmacology. 10 hours. 430: Three lectures. 431-432: Three lectures and one three hour laboratory period each quarter. *Mr. Knapp.*

A study of essential pharmacological principles including mathematics, prescription writing, drug classification, pharmacodynamics, pharmacotherapy, and a consideration of pharmaceutical and biological preparations useful in veterinary medicine.

441. Veterinary Toxicology. 4 hours. Two lectures and two double periods of demonstrations, laboratory or field trips. *Mr. Knapp* and *Mr. Duncan.*

A study of organic and inorganic poisons and plants in the Southeastern United States that are poisonous to livestock, with emphasis on their identification, distribution and toxic effects.

450. Applied Animal Nutrition. Prerequisite: Fourth year standing in the School of Veterinary Medicine. *Mr. Sewell.*

A detailed consideration of the relative values of different crops, feeds and products, and their use in meeting the nutritive requirements of the various classes of farm animals.

499 a-b-c. Special Problems. Hours arranged. May be taken more than one quarter. *Mr. Piercy* and *Staff.*

Literature survey, conferences and short term projects in physiology, pharmacology and toxicology under staff direction.

SPECIAL LECTURERS

1954

G. R. Bartlett, D.V.M., East Point, Ga.
J. L. Barner, M.D., Athens, Ga.
C. C. Brock, D.V.M., East Point, Ga.
C. L. Bromley, D.V.M., Atlanta, Ga.
E. E. Chambers, D.V.M., Rossville, Ga.
G. E. Hawley, D.V.M., Terre Houte, Ind.
D. E. Hightower, D.V.M., West Jefferson, N. C.
H. B. Hodgson, D.V.M., Athens, Ga.
J. H. Jenkins, University of Georgia, Athens, Ga.
H. E. Kingman, Sr,. D.V.M., Copper Hill, Tenn.
H. E. Kingman, Jr., D.V.M., A.V.M.A., Chicago, Ill.
C. J. Mikel, D.V.M., Atlanta, Ga.
W. H. Mitchell, D.V.M., Annapolis, Md.
A. H. Quinn, D.V.M., Kansas City, Mo.
J. T. Riddle, D.V.M., Marietta, Ga.
S. F. Scheidy, V.M.D., Glenolden, Pa.
F. G. Schell, D.V.M., Franklin, Tenn.
R. M. Sears, D.V.M., Fairhill, Md.
S. Shepard, D.V.M., Moultrie, Ga.
W. L. Sippel, V.M.D., Ph.D., Tifton, Ga.
L E. Starr, D.V.M., Ph.D., Atlanta, Ga.
J. H. Steele, D.V.M., M.P.H., Atlanta, Ga.

TECHNICAL ASSISTANTS

Tony Allen
Emilia Bowen
Roswell Bowersett, B.S.A.
Joseph Edwin Brown
Phillip H. Coleman
Frank R. Craig, B.S., M.S.
Theodore N. Gournaris
Merritt D. Long, A.B.
Jo Ann Love, B.S.
Hartlee B. Lynn, B.S., M.S.
Ralph Poe
Lois Scott, B.S.
Barbara G. Settle, B.S., Cert.Med.Tech.
Evelyn Wade

ADVISORY COMMITTEEE OF GEORGIA VETERINARY MEDICAL ASSOCIATION MEMBERS

Dr. T. A. Bragg, Jr. — Monroe, Georgia
Dr. Edward E. Chambers — Rossville, Georgia
Dr. Tim Brice Clower — State Capitol, Atlanta, Georgia
Dr. William E. Elinburg, Jr. — Lawrenceville, Georgia
Dr. Gordon L. Foy — Thomaston, Georgia
Dr. J. T. Ridley — Marietta, Georgia
Dr. Shirley Shepard — Moultrie, Georgia
Dr. Julius E. Severin — Atlanta, Georgia

DIVISION OF THE ARMED SERVICES

JOSEPH ANDERSON WILLIAMS, A.B., M.S., M.Ed., D.Ed., *Coordinator*
JAMES VIRGIL THOMPSON, Colonel, U.S.A., *P.M.S.&T.*
LLEWELYN GOODE DUGGAR, B.S., Colonel, *P.A.S.*

The division of the Armed Services is the organization which provides training in the Senior Division, Reserve Officers' Training Corps, at the University. It is composed of a Coordinator, who is a civilian official of the Institution and two departments of instruction. The Department of Military Science and Tactics operates under Department of the Army Regulations in coordination with the University academic program. Through it, graduates may be commissioned second lieutenants in the Regular Army or Reserve of the United States Army. The Department of Air Science, under the directives of the United States Air Force and in coordination with the University, commissions graduates in the Reserve of the United States Air Force.

The head of each of the departments is a senior officer of the United States Army or Air Force with wide experience in the service. Each is assisted by officers with rank from Lieutenant to Lieutenant Colonel with varied experience who are especially skilled and trained as instructors. The officer personnel is assisted in the operation, administration, and tactical instruction by specialized non-commissioned officers.

The mission of the ROTC is the production of junior officers who have the qualities and attributes essential to their progressive and continued development as officers in the Army or the Air Force of the United States. Under provisions for land grant universities, all physically qualified male students who have not reached junior class status are required to enroll in the basic course of the ROTC with the exception of veterans and non-citizens and those otherwise exempted. Those who have had basic course ROTC, senior division and those veterans credited with the equivalent of two years basic ROTC training while in service, may apply and be considered for advanced (junior and senior class) ROTC, provided they have attained junior academic standing. Regulations of the Services require that ROTC and academic courses be taken at the same level concurrently. The courses of the Army and the Air Force are required to be given in sequence. It is desirable that those who expect to be selected for commissioning enter at the Fall quarter if possible. Transfer students entering the sophomore or higher level are not eligible in all cases for enrollment in basic ROTC. They may be considered provided they are veterans or have acceptable ROTC credits allowing the ROTC standing to be in line with their academic status.

Authority exists for transfer from the Army to the Air Force ROTC, and vice versa. Such transfers will be approved only in exceptional cases. If made before contract for the advanced course is signed, approval can be given by the PMS&T and PAS concerned. Thereafter, approval by higher Army and Air Force authority is necessary. In any case, the receiving service must be satisfied that the transferee has military experience which is

a satisfactory equivalent for the ROTC period for which he is to be given credit by that service.

Special attention is given to the maintenance of high standards of conduct and academic achievement. The courses are focused on the development of individual leadership and a sense of responsibility for duty as a citizen reserve officer of the National Military Establishment.

The University in coordination with the two departments of the National Military Service, may establish a percentage quota for division of entering students between the Army and Air Force training programs. The selection of individuals to fill these quotas is based so far as possible on individual student desires with priority in the Air Force training given to those primarily interested in and adaptable to flight training after commissioning. For the 1954-55 calendar year no percentage quota was established.

Students transferring from another institution, continue their training in the Army ROTC to completion of the basic course Senior Division Army ROTC. Air Force ROTC students transferring likewise continue their training in the Air Force ROTC.

The selection of students for enrollment into advanced ROTC in both departments is made on a quality basis. In addition, both have a numerical limitation on those which can be accepted. Those enrolled in the basic courses of ROTC, are required to continue and successfully complete such courses until standing as an academic junior has been attained at the end of the school year.

National legislation provides for deferment from Selective Service of those ROTC students who are considered potential officer material. These deferments are subject to authorization and limitations imposed by the Department of Army, the Department of Air, and National Selective Service Headquarters. However, within the quotas authorized, selection of students for deferment is made by boards composed of ROTC Army personnel, ROTC Air personnel, and civilian academic representatives of the University. Selection is based on academic and military standing of the student. Once deferred, a student continues in that status as long as he continues to maintain satisfactory academic and military standing. Once a deferment has been withdrawn for lack of progress standing, it may not be reinstated. The purpose of this deferment is to allow a student to continue his University courses and be commissioned to serve as a member of the reserve component of the Army or Air Force. The period for which a student may be deferred and continue to be eligible for a commission covers twelve academic quarters. In case a student may require additional time above the twelve academic quarters to graduate, he is required to secure the approval of the PMS & T or the PAS. This approval is given in writing and will allow him to continue his academic work and military deferment for the period required after completing all ROTC instruction with continued eligibility for a commission. Students will be dismissed immediately and permanently if they decline (after consultation with appropriate ROTC and University officials) to fulfill the terms of their ROTC deferment agreements pertaining to undergraduate work at the institution.

Women students are invited to inquire at the Military Building in regard

to obtaining a commission in the Women's Army Corps, Army Reserve, and the Army Nurse Corps, and at the Air Science Building concerning the Women's Air Force, AF Medical Service and AF Nurses Corps. Opportunities exist for women members of the graduating classes to apply for direct commissions in the WAC, Army Reserve, and in the WAF, Air Reserve. Upon entering active duty and completion of the Officers Course of the Service concerned, these women may apply for a commission in the Regular Army or Air Force. Women students may apply for Air Force ROTC training. This is given without obligation on the part of either the student or the Air Force and is for academic credit only.

For statements about fees, uniforms and textbooks see page 76.

SUBSISTENCE ALLOWANCE

Students contracting to pursue the advanced courses are paid a monthly monetary allowance in lieu of subsistence at a daily rate equal to the value of the commuted ration, which for the fiscal year 1955 is 90 cents per day.

SUMMER CAMP

Students contracting to pursue the advanced courses are required to attend ROTC summer camp, normally between the two academic years of the advanced courses. Students attending this camp are messed and quartered, paid at the rate of a soldier or airman of the 1st grade, and given a travel allowance of 5c per mile from their homes to camp and return.

DEPARTMENT OF ARMY

MILITARY SCIENCE AND TACTICS

The first two years are known as the basic course and the second two years are known as the advanced course. Less than 50% of the entering basic students complete the requirements and are selected for admission to the advanced course. The men selected for Senior ROTC are those who are physically qualified and have acquired good academic standing and an attitude of cooperation and leadership.

Members of the senior ROTC class who apply themselves may be designated Distinguished Military Students. When these graduate they will be designated Distinguished Military Graduates and if they desire may apply for and if selected by the Department of the Army may be commissioned as Second Lieutenants in the Regular Army.

Army Regulations provide that within quota limitation students who are pursuing academic majors which have special application to the techniques of an arm or service other than that in which enrolled may, under certain conditions, be commissioned in the arm or service which is most applicable to their academic major.

Army commanders are given authority to grant delays in call to active duty for graduate study in those fields for which the army has requirements or in which the army has primary interest.

ARMY COURSES

1 a-b-c. Military Science and Tactics. 5 hours. First year basic course in General Military Science consists of three hours classwork and two hours of drill and outdoor instruction per week. The course includes leadership, drill and exercise of command; organization of the Army and ROTC; American military history; and individual weapons and marksmanship.

2 a-b-c. Military Science and Tactics. 5 hours. Second year basic course in General Military Service consists of three hours classwork and two hours of drill and outdoor instruction per week. The course includes leadership, drill and exercise of command; crew-served weapons and gunnery; map and aerial photograph reading.

350 a-b-c. Military Science and Tactics. 9 hours. The first year advanced course in General Military Science consists of four hours classwork and two hours of drill and outdoor classwork per week. The course includes leadership, drill, and exercise of command; small unit tactics and communications; organization, function and mission of the arms and services; and military teaching methods.

351 a-b-c. Military Science and Tactics. 9 hours. The second year advanced course in General Military Science consists of four hours classroom work and two hours of drill and outdoor instruction per week. The course includes leadership, drill and exercise of command; logistics; operations; military administration and personnel management; and service orientation.

DEPARTMENT OF AIR SCIENCE

The first two years are known as the basic course and the second two years are known as the advanced course. Normally, only one out of approximately every six entering students is selected for admission to the advanced course under a numerical quota limitation. Selection to the advanced course is based on physical suitability and interest in flight training together with achievement records of academic ability and observed leadership traits. It is expected that almost all of those selected for the advanced course will be able to successfully complete one year of flying training in officer grade prior to the two years of active service as an officer of the Air Force. Eighteen months after entering active duty, each reserve officer may apply for a regular Air Force commission. Just prior to being graduated and commissioned, each student is given a service specialty. This specialty is selected to fit most closely the student's interest, aptitude and academic training. This specialty controls the area of assignment and field of specialization as an additional duty to flying activities. Its relative importance increases with years of service until flying duties become secondary to these other service specialties.

Normally, commissioned graduates are scheduled to be called to active duty and admission to a flying training class from 30 to 100 days after graduation. This training requires approximately one year and is followed by two years of service duty. This specialized training normally follows completion of flight training and a period of service duty. Those who wish to take graduate training in certain fields such as physics, chemistry and others

for which there is a critical need, may request a delay in call to active duty. There is opportunity for those graduates desiring training in meterology, nuclear physics, certain languages and similar fields, to request active duty assignments for civilian institution graduate training up to and including the Masters and Doctorate level.

AIR FORCE COURSE

5 a-b-c. Air Science. 5 hours. First Year Basic course in Air Science consists of three hours classroom work and two hours of drill and outdoor instruction per week. Classroom work consists of: Introduction to AFROTC, Introduction to Aviation, Fundamentals of Global Geography, International Tension and Security Organizations, and Military Instruments of National Security. These courses (5 a-b-c) must be taken in sequence.

6 a-b-c. Air Science. Second Year Basic course in Air Science consists of three hours of classroom work, two hours of drill and outside instruction per week. Classroom work consists of work in Careers in the USAF, Moral Responsibilities of Air Force Leaders, Introduction to Aerial Warfare, Targets, Weapons, Aircraft, Bases, and Operations. These courses (6 a-b-c) must be taken in sequence.

355 a-b-c. Air Science. 9 hours. First Year Advanced course in Air Science consists of four hours of classroom and two hours of drill and outdoor instruction per week. The classroom work consists of the study of the Introduction to Advanced AFROTC, Air Force Commander and His Staff, Creative Problem Solving, Communications in the Air Force, Instructing in the Air Force, Military Justice System, Air Navigation, Weather, and Air Force Base Functions.

356 a-b-c. Air Science. 9 hours. Second Year Advanced course in Air Science consists of four hours of classroom work and two hours of drill and outdoor instruction per week. The classroom work consists of the study of Career Guidance, Moral Responsibilities of Air Force Leaders, Leadership and Management Seminar, Military Aviation and Evolution of Warfare, Military Aspects of World Political Geography, and Briefing for Commissioned Service. In addition, the second year advanced courses require a minimum of eleven hours of practice teaching in Command and Leadership and in Current Events. This teaching exercise is substituted for drill during one or more quarters. Practice in actual evaluation of lower class cadets through service on interview and other rating boards is also given as a substitute for at least one quarter of drill.

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